

SCOTTISH ENTOMOLOGISTS' SURVEY ISLE OF RUM 2000

Peter Wormell (Editor)

Hallival, Letterwalton, Benderloch, Oban, Argyll, PA37 15A

Team Survey

Recorders

C Allen	(CA)	Lepidoptera
Dr D Barbour	(DAB)	Lepidoptera
Dr K Bland	(KB)	Lepidoptera, Diptera, Hymenoptera, Odonata, Hemiptera
Dr D Beaumont	(DB)	Arachnida, Coleoptera
Dr S Blake	(SB)	Coleoptera (Carabidae)
Dr G Corbet	(GC)	Arachnida, Mollusca, Crustacea (Isopoda), Diplopoda (Millipedes), Chilopoda (Centipedes), Hemiptera, Neuroptera, Diptera, Hymenoptera
M Davidson	(MD)	Arachnida
Dr D Horsfield	(DH)	Diptera, Lepidoptera
Dr R & R Key	(RK)	Coleoptera, Odonata, Hymenoptera, Diptera
J MacKay	(JM)	Lepidoptera
Dr D Phillips	(DP)	Diptera (Tipulidae), Odonata, Orthoptera, Hymenoptera
Dr R C Welch	(RCW)	Coleoptera, Lepidoptera, Siphonaptera
P Wormell	(PW)	Lepidoptera, Hemiptera

When the Isle of Rum became a National Nature Reserve in 1957 the first Management Plan stipulated that a basic requirement for any nature reserve should be the production of catalogues of the flora and fauna. Much of our knowledge of plants and insects of the island at that time was gleaned from the publications of Professor J W Heslop Harrison who led regular expeditions to the island between 1934 and 1955. Doubts have been expressed over a number of his finds. Since he did not keep voucher specimens, his remaining records were placed in squared brackets in the island's master catalogue as requiring confirmation. During recent team surveys most of these old records have been confirmed, often from the exact localities in which he and his teams, comprising staff and students from Kings College, Newcastle Upon Tyne, found them.

Since 1960 the island has been subjected to fairly evenly-spaced bursts of entomological investigation. Teams of specialists, each concentrating on their own chosen order of insects or, in a few cases, several orders in a particular habitat, were brought together for up to two weeks at a time in an attempt to produce a reasonably comprehensive catalogue of the insect fauna. Only then would it be possible to accurately measure changes in invertebrate activity resulting from pastoral manipulation and woodland restoration. These have been the two main management activities aimed at restoring biodiversity.

Between 1960 and 1963 the island was visited by 10 entomologists at different seasons. During the four successive years covered by these initial surveys, in spite of the fact that it rained for almost half of the time, the field surveys produced a basic list of 1722 species of insects (Steel and Woodroffe, 1969). The team reconvened in August/September 1969 but the untimely death of Bill Steel on the last night of survey and that of his co-editor, Gerry Woodroffe, a few years later, meant that the collation of data from this gathering was a protracted process.

Records from these surveys, combined with those of visiting and resident entomologists, were, however, eventually brought together and published in 1982 (Wormell, 1982). By then, the number of confirmed species had risen to 2137.

During each of the team surveys new species were turning up and, as time went by, a fair assessment of the island's insect fauna was taking shape.

In 1990 the Scottish Entomologists were invited to carry out a week-long survey between 25 and 29 June. There were 22 participants and, this time, their remit was not confined to insects. Spiders were also investigated. The results again contributed substantially to our knowledge of the invertebrate fauna (Hancock, 1992 and Whitley, 1994).

During the next 10 years reports from visiting entomologists were again brought together and incorporated in the master list along with observations of residents and visiting naturalists included in the wildlife reports instigated by the late Wilf Nelson and periodically produced by Scottish Natural Heritage.

In late August/early September 2000 the Scottish Entomologists' gathering was again held on Rum. Again, the remit was not confined to insects and, this time, in addition to spiders, harvestmen and pseudoscorpions, the island's molluscs, Crustacea (Isopoda), Diplopoda (Millipedes) and Chilopoda (Centipedes) were also investigated, apparently for the first time!

The week-long search was probably one of the most successful of all the group surveys to date providing not only 76 new species of insects but a great deal of detailed information on distribution as well as useful data on the

colonisation by arboreal species of the new native woodlands restored since 1959. The inclusion of map references for all records was particularly useful and there were many records from widely dispersed localities.

Master lists of insect orders updated to 1999 (Wormell, in prep.) were handed out to participants at the beginning of the survey. These now provided a reasonably comprehensive appraisal of the insect fauna of the island and also gave an indication which groups required further investigation.

Sadly, David Philips, one of the most enthusiastic of the group, died in November 2003. His chosen specialist group was Tipulidae (Diptera), but he also included valuable records of Hemiptera, Orthoptera and Hymenoptera, finding 5 previously unrecorded species as well as gathering substantial new information on distribution within the island of previously recorded species. He will be greatly missed at future gatherings.

David Beaumont visited the island in May and July 2000 to set out pitfall traps at the following localities:

Kilmory Fank Tree Plot	(NG363008)
Harris Tree Plot	(NM338961)
Guirdil Tree Plot	(NG319008)
Kinloch (behind The White House)	(NM402992)
North face of Hallival at 500 m	(NM392967)

His trappings produced an enormous amount of new information including a substantial number of previously unrecorded Coleoptera as well as spiders.

This paper deals only with the insects recorded during the week-long survey including material from the pitfall trappings plus a few recorded from samples of leaf litter collected by Kathy Sayer and Malcolm Whitmore in December 2000 and extracted by Gordon Corbet. Dr Corbet has agreed to bring together the substantial lists of other invertebrate groups, namely Mollusca, Crustacea (Isopoda), Arachnida (spiders, pseudoscorpions and harvestmen), Diplopoda (Millipedes), Chilopoda (centipedes) in collaboration with David Beaumont and Mike Davidson.

Perhaps the two most interesting species encountered during this survey were *Gyrophaena poweri*, Crotch, a previously unrecorded saphylinid beetle associated with woodland fungi (Welch, 2001 & 2003) and *Cosmopterix orichalcea* (Stainton), Cosmopterigidae, a small leaf mining moth whose larvae were found by Keith Bland, in *Anthoxanthum*, from two new localities at Kinloch and Kilmory. The only previous record of the latter was a single imago collected by Peter Wormell in the Harris tree plot in June 1967 and determined by Ted Pelham-Clinton (Pelham-Clinton, 1986). Both of these rare insects were, until the 1970s, thought to be confined to a few scattered localities in southern England and, in the case of the latter, also in south Wales and Ireland. Their discovery, as resident populations on the Isle of Rum, is quite remarkable.

INSECTS RECORDED

Previously unrecorded species are indicated with an asterisk.

SMALL ORDERS AND HEMIPTERA

None of the participants on this survey concentrated on these orders, however, casual records by Gordon Corbet, Keith Bland, Roger and Rosy Key, Colin Welch, David Phillips and Peter Wormell resulted in useful new information on the distribution of some Odonata, Plecoptera, Orthoptera, Hemiptera and Neuroptera with 6 previously unrecorded species (1 Psocoptera, 4 Hemiptera and 2 Neuroptera).

ODONATA (Dragon Flies)

Cordulegasteridae

Cordulegaster boltonii (Donovan). Kinloch (NM4099) one 30.8.00 (KB).

Aeschnidae

Aeschna juncea (Linnaeus). Loch Gainmhich (NM3798) 30.8.00; (RK).

Libellulidae

Sympetrum danae Sulzer (= *S. scoticum* (Donovan)). Loch Gainmhich (NM3798) 30.8.00 (RK); Kilmory (NG3603) many 27.8.00; Harris (NM3396) 29.8.00, many (KB).

PLECOPTERA (Stoneflies)

Nemouridae

Leuctra fusca (Linnaeus). Widespread, Sgaorishal, Kilmory Fank Tree Plot on alder; Harris Tree Plot on ash, Harris fields, Kinloch Glen on alder and broom, August 2000 (GC).

ORTHOPTERA

Tetrigidae

Tetrix undulata (Sowerby). Kilmory Dunes (NG3604) 27.8.00 (RK).

Acrididae

Omocestus viridulus (Linnaeus). Kilmory, flushes near cottage (NG358039) and dunes (NG3604) 27.8.00 (DP).

Myrmeleotetix maculatus (Thunberg). Kilmory Dunes (NG3604) 27.8.00 (RK).

Chorthippus parallelus (Zetterstedt). Kilmory, flushes near cottage (NG358039) and beach (NG366044) 27.8.00 (DP).

DERMAPTERA (Earwigs)

Forficulidae

Forficula auricularia Linnaeus. Kilmory Dunes (NG3604) 27.8.00; Harris (NM3495) 29.8.00 (RK); Kinloch (NM4099) 30.8.00 (KB).

PSOCOPTERA (Booklice)

**Lepinotus reticulatus* Enderlein. ♀♀, sieving hay in the Kinloch Farm barns, 31.8.00 (RCW).

HEMIPTERA HETEROPTERA

Pentatomidae

Picromerus bidens (Linnaeus). Kinloch (NG3900) 29.8.00, attacking heather beetle (C Allen det. KB).

Rhacognathus punctatus (Linnaeus). Lower slopes of Hallival, (475 m), (NM392969) 28.8.00 (DH) (Horsfield, 2002)

Lygaeidae

Stygnocoris sabulosus (Schilling). Kilmory enclosure, one swept from Calluna/Erica/grass, August 2000 (GC).

Miridae

Dicyphus pallicornis (Meyer-Dür). Kilmory (NG3503) few among leaves of *Digitalis* 27.8.00 (KB).

Calocoris roseomaculatus (De Geer). Kilmory Dunes (NG3604) 27.8.00, common (RK).

Saldidae

Saldula scotica (Curtis). Loch Fiachanis (NM3594) and Loch Gainmhich (NM7398) 30.8.00, common in both lochs (RK).

S. saltatoria (Linnaeus). Coire Dubh (NM3897) 28.8.00 and Loch Gainmhich (NM7398) 30.8.00, common (RK).

Veliidae

Velia caprai Tamanini. Barkeval summit (NM3797), 30.8.00 (RK).

Gerridae

Gerris costai (Herrich-Schaeffer). Near Dibidil (NM4094) 1 ♀ 28.8.00 (KB det. T. Huxley).

Nepidae

Nepa cinerea Linnaeus. Harris (NM340953), Juv in plastic bucket in small stream below boulder beach, 29.8.00 (RCW). (Specimen now held by T. Huxley)

Corixidae

Sigara nigrolineata (Fieber). Harris (NM341955), 4 ♂♂ and 3 ♀♀, pool behind raised beach, 25.8.00 (PW det. T. Huxley).

S. scotti (Fieber). Harris (NM341955) one ♂ and 5 ♀♀, pool behind raised beach, 25.8.00 (PW det. T. Huxley).

S. venusta (Douglas & Scott). Harris (NM341955) 2 ♂♂ and 5 ♀♀, pool behind raised beach, 25.8.00 (PW det. T. Huxley).

HEMIPTERA-HOMOPTERA

Cercopidae

Phylaeus spumarius (Linnaeus). Kinloch Castle, grassland, (NM400995), 23.8.00; Kinloch Glen, heath (NM378997), 30.8.00; mine (NG383003) 31.8.00; Kinloch, grassland, (NM402998) 1.9.00 and mine (NM404898) 1.9.00 (DH).

Cixidae

Cixius nervosus (Linnaeus). Kinloch Glen (NM396999), ♀ on alder, August 2000 (GC).

Psyllidae

**Trioza remota* Foerster. Kinloch Glen (NG3900), Psyllid pits in underside of oak leaves, 31 August 2000 (KB).

Livia juncorum (Latreille). Askival/Hallival ridge (NM3996) galls on *Juncus articulatus*; Harris (NM3495) (Linnaeus) shoot galls on *J. articulatus*, 29 August 2000 (KB).

**Psyllopsis fraxini* (Linnaeus). Kinloch (NM4099) galled and crinkled leaf edges on ash, 30 August 2000 (KB).

Psylla alni (Linnaeus). Kinloch Glen (NM396999) ♀ on alder (GC).

Aphididae

**Dysaphis crataegi* (Kaltenach). Kilmory North Tree Plot (NG3602) 1 September 2000 and Kinloch (NM4099), curled and thickened leaves of hawthorn, 30 August 2000 (KB).

Myzus cerasi (Fabricius). Kinloch (NM4099), rolled and crinkled leaves of cherry, 30 August 2000 (KB).

NEUROPTERA

Chrysopidae

**Chrysoperla carnea* Stephens. Harris Tree Plot, one on hawthorn, August 2000 (GC).

Hemerobiidae

Hemerobius simulans Walker. Harris Tree Plot, one on hawthorn, August 2000 (GC).

Contributors (Small Orders & Hemiptera)

KB	=	Dr Keith Bland
GC	=	Dr Gordon Corbet
DH	=	Dr D Horsfield
RK	=	Dr Roger & Rosy Key
DP	=	Dr David Phillips
RCW	=	Dr R C Welch
PW	=	Peter Wormell

LEPIDOPTERA

The butterflies and moths have received more sustained attention over the years than other insect orders since a few residents, with an interest particularly in the Macrolepidoptera, have been able to record and collect at all seasons since the island became a National Nature Reserve in 1957. Some families belonging to the Microlepidoptera have, however, been neglected.

Contributors to this section were Caroline Allen (CA), David Barbour (DAB), Keith Bland (KB), Gordon Corbet (GC), Michael Davidson (MD), David Horsfield (DH), Roger and Rosy Key (RK), Jessie MacKay (JM), Colin Welch (RCW) and Peter Wormell (PW). Nineteen new species were added to the island's checklist.

Keith Bland concentrated on families which had received the least attention in the past, i.e. Nepticulidae, Bucculatricidae, Lyonetiidae, Gracillariidae, Glyphipterigidae, Yponomeutidae, Coleophoridae, Oecophoridae, Gelechiidae, Momphidae and Cosmopterigidae. Within these families he recorded 16 previously unrecorded species. His most interesting discovery was of larval mines of *Cosmopterix orichalcea* in *Anthoxanthum* at Kilmory and Kinloch (Bland 2001). Twenty-two imagines emerged between 10 and 15 May 2001. The only previous record of this species was a single imago netted by Peter Wormell in a dense mat of *Festuca rubra* in the Harris Tree Plot on 26 June 1967 and determined by Ted Pelham Clinton (Pelham-Clinton, 1986). These would seem to be the only records so far for this leaf miner in Scotland.

Peter Wormell, Caroline Allen, Jessie MacKay and David Barbour carried out moth trappings in the vegetation monitoring enclosure on Kilmory machair, Kilmory and Harris Tree Plots, Harris Mausoleum enclosures on the north side of Loch Sresort, at various sites in the Kinloch Policies and in the Kinloch Glen. One Tortricid *Acleris comariana* (the Strawberry Tortrix), new to the Rum list, was trapped in the Kinloch Glen and a new Pyralid *Eudonia murana* at several localities in the Kinloch area.

Caroline Allen collected and reared larvae including *Peridroma saucia* (the Pearly Underwing). It has been stated that there is evidence to support the suggestion that this species could be a permanent resident in some sheltered nooks in milder areas in Britain (South, 1908) though Heath & Emmet (Vol. 9, 1979) suggest this is unlikely. However, since breeding was also confirmed in the 1960s (Wormell 1982) it would seem possible that a small resident population may, indeed, have become established.

David Barbour recorded several males of *Orygia antiqua* (the Vapourer), for the first time on Rum, on the north side of Loch Sresort. Taking into consideration the sedentary nature of the flightless female of this species it raises questions about its colonisation history.

Nineteen new species were added to the island's checklist.

Nepticulidae

*23 *Ectoedemia argyropeza* (Zeller). Loch Sresort South Side Nature Trail (NM4198) early mines in petioles of aspen, 31.8.00 (KB).

34 *E. occultella* (Linnaeus)(=*argentipedella*). Loch Sresort south side (NM4199) 31.8.00, early mines in birch (KB).

35 *E. minimella* (Zetterstedt) (= *mediofasciella* auct), Kinloch (NM4099) 30.8.00, a few empty mines in birch (KB); Bagh na h-Uamha (NM4197) 1.9.00, mines in birch (RCW).

*50 *Stigmella aurella* (Fabricius). Harris Tree Plot (NM3396) 29.8.00, single vacated mine in bramble (KB).

66 *Stigmella sorbi* (Stainton). Dibidil Track (NM4096), old mines on rowan; Allt Slugan a Choilich (NM3998), near Hydro Dam, mines in rowan, 28.8.00; Harris Tree Plot (NM3396), many old larval mines in rowan 29.8.00; Kilmory (NG3603), more vacated mines 1.9.00 (KB).

- 68 *S. salicis* (Stainton). Kinloch (NM4099) 30.8.00; Kinloch Glen (NG3900, 4000) 31.8.00, vacated mines in *Salix cinerea*; Kilmory Fank Tree Plot (NG3600), vacated mines in *Salix aurita*; Kilmory outwith Tree Plots (NG3603) 1.9.00 (KB).
- *72 *S. myrtillella* (Stainton). Loch Sresort, South Side Nature Trail (NM4198), single vacated mine in blaeberry, 31.8.00 (KB).
- *79 *S. perpygmaeella* (Doubleday). Kinloch (NM4099), mines on hawthorn, 30.8.00; Kilmory north enclosure (NG3603) 1.9.00, vacated mines in hawthorn (KB).
- 87 *S. svenssoni* (Johansson). Harris Tree Plot (NM3396), many vacated linear mines in oak, 29.8.99; Kinloch Glen (NG4000) 31.8.00, mines (KB).
- 99 *S. hybnerella* (Hübner). Kinloch (NM4099), vacated mines on hawthorn, 30.8.00 (KB).
- 103 *S. nyländriella* (Tengström) (= *aucupariae* Freyer). Kinloch near castle (NM4099) 27 & 30.8.00, mines in rowan (KB); Harris Tree Plot (NM3396) 29.8.00, vacated mines in rowan (JM).
- *104 *S. magdalenae* (Klimesch). Kinloch (NM4099), many mines on rowan, 30.8.00; Harris Tree Plot (NM3396) 1.9.00, a few vacated mines on rowan (KB).
- *108 *S. crataegella* (Klimesch). Harris Tree Plot, many vacated mines, (1 occupied) 29.8.00 (KB)
- *112 *S. luteella* (Stainton). Kilmory Fank Tree Plot (NG3600), single mines on birch, 1.9.00 (KB).
- *115 *S. alnetella* (Stainton). Kilmory North Tree Plot (NG3603), a few vacated mines in alder, 1.9.00 (KB)
- 116 *S. lapponica* (Wocke). Kinloch, vacated mines in birch (NM4099) 28.8.00 (KB); Kilmory Fank Tree Plot (NG3602); Bagh na h-Uamha near standing stone (NM4197), vacated mines on birch, 1.9.00 (RCW).
- 117 *S. confusella* (Wood). Kinloch (NM4099), mines in birch, 30.8.00 (KB); Bagh na h-Uamha near standing stone (NM4197), vacated mines in birch, 1.9.00 (RCW).

Incurvariidae

- 128 *Phylloporia bistrigella* (Haworth). Kilmory (NG3603), old mines in leaves of birch, 27.8.00; Kinloch (NM4099), vacated mines in birch, 28.8.00; Kilmory Fank Tree Plot (NG3600), vacated mines on birch, 1.9.00; Kilmory North Plot (NG3603), aborted mines on birch, 1.9.00 (KB).
- 132 *Incurvaria praelatella* (Denis & Schiffmüller). Kinloch (NM4099), early mines, just cutting out, in leaves of *Filipendula ulmaria*, 30.8.00 (KB).

Heliozelidae

- *154 *Heliozela sericiella* (Haworth). Kilmory (NG3603), many vacated mines in oak, 27.8.00; South Side Loch Sresort (NM4099, 4198, 4199), vacated mines on oak, some parasitised, 31.8.00; Kinloch Glen (NG3900, 4000), many vacated mines, 31.8.00; Kilmory North Tree Plot (NG3602-3603) 1.9.00, a few vacated mines on oak (KB).
- 156 *H. resplendella* (Stainton). Kilmory (NG3603), many vacated mines in alder, 27.8.00 and a few on 1.9.00, one with parasites - one ualcid emerged 10.9.00; Kinloch (NM4099) 30.8.00 (KB).
- 157 *H. hammoniella* (Sorhagen). Kinloch (NM4099), vacated mines in birch, 28.8.00 and 30.8.00 (KB).

Zygaenidae

- 169 *Zygaena filipendulae* (Linnaeus). Harris (NM3396), single cocoon with exuvium on grass, 29.8.00 (KB).
- 172 *Zygaena purpuralis* (Brünnich). Harris (NM3396), 5 larvae feeding on *Thymus* (KB); 2 retained and passed to P. Wormell but did not survive diapause (PW).

Tineidae

- 227 *Monopis laevigella* (Denis & Schiffmüller). Kinloch Castle (NM4099) 1.9.00, one dead indoors (KB).

Ochsenheimeriidae

- 252 *Ochsenheimeria urella* Fischer von Rösterstamm. Kilmory Fank (NG3600) 27.8.00, pair in cop. swept by track (KB).

Lyonetiidae

- *257 *Leucoptera robi* (Stainton). Kinloch Glen (NG3900) 31.8.00, larvae mining leaves of *Trifolium pratense*, (DH), imagines emerged 13.5.01 (KB). New food plant in Britain (Bland, 2001).

Bucculatriidae

- *272 *Bucculatrix cidarella* Zeller. Dibidil track (NM4097), mines with moulting cocoons on leaves of alder, 28.8.00; Kinloch (NM4099) 30.8.00; Kinloch Glen (NG3900 and 4000) 31.8.00 (KB); Kinloch Glen Nature Trail (NM3999) 29.8.00, larva on alder (CA).
- *274 *B. ulmella* Zeller. Kinloch Glen (NG3900 and 4000), vacated mines in oak, 31.8.00 (KB).
- 276 *B. demaryella* (Duponchel). Kilmory Fank Tree Plot (NG3600), a few vacated mines on birch, 1.9.00 (KB).

Gracillariidae

- 282 *Caloptilia elongella* (Linnaeus). Kilmory North Tree Plot (NG3603), blisters and tubes etc on alder, 27.8.00; Kinloch (NM4099), rolls and early mines on alder, 30.8.00 (KB).
- 283 *C. beulicola* (Hering). Kinloch (NM4099), transverse rolls and early mines on birch, 30.8.00 (KB).
- *284 *C. rufipennella* (Hübner). Kinloch (NM4099), cones on sycamore, 29.8.00 (KB); North Side, Loch Sresort (NM410999) 30.8.00 (CA).

- 286 *C. alchimiella* (Scopoli). Harris Tree Plot (NM3396), a few cones etc on oak leaves, 29.8.00 (KB) and 1.9.00 (JM); also cocoon on oak, 1.9.00 (CA).
- 288 *C. stigmatella* (Fabricius). Kilmory (NG3603), cones etc on *Salix repens*, 27.8.00; Kinloch (NM4099) 30.8.00 (KB).
- 293 *C. syringella* (Fabricius). Harris (NM3396), in Tree Plot, adults and larval workings, 29.8.00 (KB) and 1.9.00 (JM); Kinloch (NM4099), spinings on ash and privet, 30.8.00; South Side Loch Scresort (NM4099, 4198 and 4199), few (KB).
- *303 *Parornix anglicella* (Stainton). Harris Tree Plot (NM3396), a few cones on hawthorn, 29.8.00 (KB).
- 305 *P. scoticella* (Stainton). Kilmory (NG3603), folds and blisters in rowan, 27.8.00; Allt Slugan na Choilich nr Hydro Dam (NM3998) 28.8.00; Harris Tree Plot (NM3396), folds etc in rowan, 29.8.00; Kinloch (NM4099) 30.8.00 (KB).
- 320 *Phyllonorycter quercifoliella* Zeller. Harris Tree Plot (NM3396), blisters with frass covered cocoons, a few, 29.8.00 (KB).
- 337 *P. hilarella* (Zetterstedt) (= *spinolella* (Duponchel)). Kinloch (NM4099), blisters on leaves on *Salix cinerea* (KB).
- 341 *P. maestingella* (Müller). Kinloch (NM4099), a few blisters on beech, 30.8.00 (KB).
- 345 *P. rajella* (Linnaeus). South Side Loch Scresort (NM4198), blisters with exuvia on alder, 31.8.00 (KB).
- *348 *P. quinqueguttella* (Stainton). Kinloch (NM4099), single blister on *Salix repens*, 30.8.00 (KB).
- 353 *P. ulmifoliella* (Hübner). Kilmory (NG3603), in Tree Plot, blisters in leaves of birch, 27.8.00; Kilmory Fank Tree Plot (NG3600), vacated mines on birch (KB).
- *354 *P. emberizaepenella* (Bouché). Kilmory (NG3603), blisters with contortion of leaf on *Lonicera*, 27.8.00 (KB).

Choreutidae

- 385 *Anthophila fabriciana* (Linnaeus). Kinloch (NM4099), many webs on *Urtica dioica*, 30.8.00 (KB).

Glyphipterigidae

- 391 *Glyphipterix simplicicella* (Stephens). Kinloch (NM4099), typical holes in stem of *Dactylis glomerata*, 30.8.00 (KB).
- 392 *G. schoenicolella* Boyd. Dibidil track (NM4194), larvae in seed heads of *Schoenus nigricans* (KB).

Yponomeutidae

- 411 *Argyresthia goedartella* (Linnaeus). Kinloch (NM4099), one, 30.8.00 (KB); South Side Wood Loch Scresort (NM416989) 31.8.00 (JM); MV trap near the turbine (NM399994), several, 30.8.00 (PW, JM, CA).
- *419 *A. semifusca* (Haworth). MV trap near the turbine (NM399994) 30.8.00 (PW, JM, CA, DAB).
- 421 *A. bonneliella* (Linnaeus). Harris Tree Plot (NM3396), two, 29.8.00 (KB).
- 437 *Swammerdamia caesiella* (Hübner). Kinloch (NM4099), single larva in web on birch, 30.8.00 (KB).
- 461 *Ypsolopha ustella* (Clerck). MV trap near the turbine, Kinloch (NM399994) 30.8.00; Peat Pool, Kinloch Glen, MV trap 29.8.00 (JM, CA, PW, DAB).
- 464 *Plutella xylostella* (Linnaeus). One, Kilmory (NG3603) 27.8.00; one, Askival (NM3994) (KB).

Coleophoridae

- 493 *Coleophora serratella* (Linnaeus). Single case on birch, Kinloch (NM4099) 28.8.00 (KB).
- 547 *C. discordella* Zeller. Kinloch Glen (NG4000), single case feeding on *Lotus corniculatus* (KB).
- *553 *C. striatipennella* Nylander. Kinloch (NM4099), cases on seedheads of *Stellaria alsine*, 30.8.00 (KB).
- 564 *C. obscenella* Herrich-Schäffer (= *C. virgaurea* (Stainton)). Dibidil track (NM4195), many cases on flowerheads of *Solidago virgaurea*, 28.8.00 (KB). South side of Loch Scresort; 30 August 1969; one case on *Solidago virgaurea*; (ECP-C).
- 584 *C. alticolella* (Zeller). Kilmory cases on *Juncus*, (NG3503) 27.8.00; Kinloch (NM4099) 30.8.00 (KB); Kinloch Glen Nature Trail (NM3999) 29.8.00 (CA).

Oecophoridae

- 670 *Hofmannophila pseudopretella* (Stainton). Kinloch Castle windowsill, 30.8.00 (JM).
- 670 *Depressaria daucella* (Denis & Schiffmüller). Kinloch (NM4099), workings and pupae on *Oenanthe sp.*, 30.8.00 (KB).

Gelechiidae

- 821 *Scrobipalpa murinella* (Duponchel). Askival/Hallival Coll (NM3995) 28.8.00, at least two sets of mines in *Antennaria dioica* (KB).
- 822 *S. acuminatella* (Sircom). Harris (NM3396), steep sided burn, Glen Duain, many mines in *Cirsium palustre* (KB).
- 829 *Caryocolum marmoreum* (Haworth). Shamhnan Insir (NG3704) 27.8.00, one female (RK det KB, genitalia checked).
- 843 *Aproaerema anthyllidella* (Hübner). Harris (NM3396), a few empty podded leaves of *Anthyllis vulneraria*, 29.8.00 (KB).

858 *Hypatima rhomboidella* (Linnaeus) MV Trap, Turbine House, Kinloch (NM399994) 30.8.00 (PW, CA, JM, DAB).

Momphidae

883 *Mompha raschiella* (Zeller). South Side Loch Sresort (NM4099, 4198, 4199), mines in rose bay willow herb, 31.8.00 (KB).

Cosmopterigidae

896 *Cosmopterix orichalcea* (Stainton). Kilmory (NG3603), larvae in mines on *Anthoxanthum*, 27.8.00 and 1.9.00; Kinloch (NM4099), linear leaf mines with no frass again in *Anthoxanthum*, 30.8.00. These were all pooled to maximise breeding success. On 25.4.01 two larvae had just pupated, others were still larval. One imago emerged 10.5.01, 4 more emerged on 11.5.01, 8 on 12.5.01, 5 on 13.5.01, 2 on 14.5.01 and 2 on 15.5.01 (KB).

Tortricidae

1029 *Eana osseana* (Scopoli). One, Askival (NM3894) 28.8.00 (KB). Kilmory dunes (NG363037) 28.8.00 and wet meadows (NG367045) 27.8.00 (JM).

1038 *Acleris laterana* (Fabricius). Kinloch (NM4099) one (KB) and in UV trap Rose Garden (playpark) (NM402995) 31.8.00 (JM, CA).

*1039 *A. comariana* (Lienig & Zeller). Strawberry Tortrix. Peat Pool, Kinloch Glen, MV trap (NG395001) 29.8.00 (PW, CA, JM, DAB).

1040 *A. caledoniana* (Stephens). Above Dibidil track near Beinn nan Stac (NM405942), base rich area, (male gen.ch'd) 28.8.00 (KB).

1041 *A. sparsana* (Denis & Schiffermüller). Kinloch near turbine, MV trap (NM399994) 30.8.00 (PW, JM, CA, DAB).

1042 *A. rhombana* (Denis & Schiffermüller). Rhomboid Tortrix. Kilmory North Tree Plot (NG3505), several, 27.8.00; Harris Tree Plot (NM3396), one, 29.8.00; Kilmory Fank Tree Plot (NG3600), one, 1.9.00 (KB); Kinloch Glen (NG395001), MV trap, 29.8.00 (JM, PW, CA, DAB); Kilmory Dunes from hawthorn (NG361038), and wet meadow (NG367045) 27.8.00 (JM); Samhnan Insir (NG373043) 27.8.00 (JM); Kilmory Glen Stream Plot (NG364010) 28.8.00, MV trap (PW, JM, CA); Harris Tree Plot (NM338962) net, 1.9.00 (JM).

1043 *A. aspersana* (Hübner) Kilmory Coast (NG361038) net, 27.8.00 (JM). Harris Tree Plot (NM338962), UV trap 1.9.00 (JM and CA).

1048 *A. variegana* (Denis & Schiffermüller) Garden Rose Tortrix. Kilmory (NG3603) several from rowan and rose and a single pupa in folded leaf of bramble, 27.8.00, one imago emerged 10.9.00, also one imago netted 1.9.00 (KB).

1062 *A. emargana* (Fabricius). Kinloch near turbine (NM399994), MV trap, 30.8.00 (JM, CA, PW, DAB); Peat Pool Kinloch Glen, UV trap (NG394002) 29.8.00 (JM, PW, CA, DAB); Kilmory Glen, Stream Plot (NG364010) 28.8.00, MV trap (PW, CA, JM).

1111 *Bactra lancealana* (Hübner). Peat Pool Kinloch Glen MV trap (NG395001) 29.8.00, also UV trap (NG394002) 29.8.00 (JM, PW, CA, DAB).

1119 *Ancylis geminana* (Donovan). Allt Slugan a Choillich Hydro dam (NM3998), larval workings on leaves of *Salix cinerea* sub sp *oleifolia* (det D. Meikle); Kinloch (NM4099), larval workings on *Salix cinerea*, 30.8.00 (KB).

1132 *Epinotia subocellana* (Donovan). Kilmory, 27.8.00 and 1.9.00 (NG3503), larvae under fluff on *Salix aurita* leaves; Kilmory South Tree Plot (NG3603) (natural regeneration), and Kilmory North Tree Plot (NG3603) 1.9.00 (KB); larval workings, Dibidil track (NM4096) 28.8.00; Kinloch (NM4099), larvae under white felt mat on leaves of *Salix aurita x cinerea* (KB).

1134 *E. ramella* (Linnaeus). North Side Loch Sresort (NM410999), UV trap, 30.8.00 (JM); Peat Pool Kinloch Glen (NG395001) 29.8.00, MV trap (PW, CA, JM, DAB); Streamside Tree Plot Kilmory Glen (NG364010), MV trap (PW, JM, CA); Harris Tree Plot (NM338962), UV trap, 1.9.00 (JM, CA).

1136 *E. immundana* (Fischer von Röslerstamm). Harris Tree Plot (NM3396), one, 29.8.00; South Side Loch Sresort (NM4198) 31.8.00; Kilmory Fank Tree Plot (NG3600) and Kilmory North Tree Plot (NG3603) 1.9.00 (KB); Kinloch Castle rear, UV trap, 30.8.00; Peat Pool Kinloch Glen, MV trap (NG395001) 29.8.00 (JM, CA, PW, DAB); Kilmory Glen (NG3603), netted 28.8.00, (JM); Streamside Tree Plot (NG364010) 28.8.00, MV trap (JM, CA, PW).

1137 *E. tetraquatrana* (Haworth). Kinloch (NM4099), borings in young twigs of birch, 30.8.00 (KB).

1139 *E. tenerana* (Denis & Schiffermüller). Nut Bud Moth. Harris Tree Plot (NM3396), one, 29.8.00; Kinloch (NM4099), one, 30.8.00; Kilmory Fank Tree Plot (NG3600) 1.9.00 (KB); South Side Wood Loch Sresort (NM414989) 31.8.00 (JM, KB); Kilmory Fank Tree Plot (NG363008) 27.8.00 (JM) and 1.9.00 (KB).

1151 *E. tigonella* (Linnaeus) (= *E. stroemiana* (Fabricius)). Kilmory North Tree Plot (NG3503), one, 27.8.00; South Side Loch Sresort (NM4198), one, 31.8.00 (KB); Peat Pool Kinloch Glen, MV trap (NG395001)

- 29.8.00 (PW, JM, CA, DAB); Kilmory Glen Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, JM, CA).
- 1155 *E. brunnichana* (Linnaeus). Peat Pool Kinloch Glen MV trap (NG395001) 29.8.00 (PW, CA, JM, DAB); Kilmory Glen Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, JM, CA).
- 1156 *E. solandriana* (Linnaeus). Peat Pool Kinloch Glen MV trap (NG395001) 29.8.00 (PW, JM, CA, DAB); Kilmory Glen Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, JM, CA); netted Kilmory Dunes (NX363037) 28.8.00 (JM).
- 1159 *Rhopobota naevana* (Hübner) (= *R. unipunctana* (Haworth)). Holly Tortrix. Kilmory North Tree Plot (NG3503) one 27.8.00; Dibidil track (NM4097) one 28.8.00; South Side Loch Scresort (NM4198) 31.8.00 (KB).
- *1164 *Zeiraphera rufimitrana* (Herrich-Schäffer). Peat Pool Kinloch Glen, MV trap (NG395001) 29.8.00 (PW, JM, CA, DAB).
- *1165 *Z. isertana* (Fabricius). Harris Tree Plot (NM3396), one, 29.8.00 (KB).
- 1184 *Epiblema cirsiiana* (Zeller). Harris (NM3396), single large bright reddish larva in stem of *Cirsium palustre* 29.8.00 (KB).

Pyrilidae

- 1302 *Crambus perlella* (Scopoli). Kilmory (NG3503 and NG3603) two 27.8.00 (KB).
- 1304 *Agriphila straminella* (Denis & Schiffermüller). Near Kinloch Castle, MV trap (NM401995) 24.8.00 (PW); Kilmory Graveyard (NG361037) 27.8.00 (JM).
- 1305 *A. tristella* (Denis & Schiffermüller). Kilmory Graveyard (NG361037) 27.8.00 (JM).
- 1306 *A. inquinatella* (Denis & Schiffermüller). Kilmory (NG3603) few 27.8.00 (KB).
- 1314 *Catoptria margaritella* (Denis & Schiffermüller). Kinloch Castle MV trap (NM401995) 24.8.00 (PW); Samhnan Insir (NG371041) 27.8.00; Kilmory Glen (NG365036) 27.8.00 (JM).
- *1339 *Eudonia murana* (Curtis). Kinloch Castle rear (NM400995), UV trap, 30.8.00 (DAB, CA, JM); at the School (NM409990) 31.8.00 (JM); Peat Pool Kinloch Glen, MV trap (NG395001) 29.8.00 (PW, JM, DAB, CA).
- 1344 *E. mercurella* (Linnaeus). Kinloch (NM4099), one to light, 29.8.00 (KB); South Side Loch Scresort (NM4198) 31.8.00 (KB); Kinloch Rose Garden (Play Park) (NM402992), UV trap, 31.8.00 (JM, CA); School, netted (NM409990) 31.8.00 (JM); Turbine, MV trap (NM399994) 30.8.00 (PW, JM, CA, DAB).
- 1345 *Elophila nymphaeata* (Linnaeus). Kilmory (NG3603) many larval cases on Potamogeton leaves, almost certainly this species 1.9.00 (KB).
- 1356 *Evergestis forficalis* (Linnaeus). Garden Pebble. Kinloch, Rose Garden (NM402995) 30.8.00 (CA).
- 1388 *Udea lutealis* (Hübner). Kinloch near Castle (NM4099) 27.8.00, one, and a few on 30.8.00; Harris Tree Plot (NM3396), one only, 29.8.00 (KB); Kinloch, near White House (NM403993), netted, 26.8.00 (JM); Kinloch, Rose Garden (NM402992) 30.8.00 (CA).
- 1398 *Nomophila noctuella* (Denis & Schiffermüller). Rush Veneer. Kilmory (NG3503 and NM3603), many, 27.8.00; Dibidil Track (NM4096 and 4195) and base rich area (NM405942) where a single brown larva was found under edge of stone, 28.8.00 (pupated 6.9.00; imago emerged 20.9.00) (KB); imagines at Askival (NM3994) 28.8.00; Harris (NM3396), very abundant, 29.8.00; Kinloch (NM4099) several, 30.8.00 (KB); Kinloch Castle side, MV trap (NM401995), swarming, 24.8.00 (PW); Turbine, MV trap (NM399994), much smaller numbers, 30.8.00 (PW); numerous sightings Nature Trail (NG3800) 29.8.00 (CA); Kilmory (NG3603, NG3704), 27.8.00; (JM, CA, PW); Kilmory Streamside Tree Plot (NG364010), MV trap, 28.8.00 (JM, CA, PW); Harris Mausoleum (NM336957), MV trap, 1.9.00; Harris Tree Plot, UV trap (NM338962) 1.9.00 (JM, CA); Samhnan Insir (NG3704) 27.8.00 (RK).
- 1428 *Aphomia sociella* (Linnaeus). Bee Moth. Kinloch Rose Garden (Play Park) (NM402995), UV trap, 31.8.00 (JM, CA).
- 1454 *Dioryctria abietella* (Denis & Schiffermüller). Kinloch turbine, MV trap, (NM399994) 30.8.00 (PW, JM, CA, DAB).

Pieridae

- 1551 *P. napi* (Linnaeus). Green-Veined White. Kilmory (NG3603) one 27.8.00; Kinloch (NM4099) 30.8.00, a few (KB); common at Kinloch particularly around Hall (NM402997) 30.8.00 (JM); Kinloch Glen Nature Trail (NG3800-3900) 29.8.00 (CA).

Lycanidae

- 1574 *Polyommatus icarus* (Rottemburg). Common Blue. Kilmory (NG3603) and Dunes (NG3604) adults & larvae 27.8.00 (KB, PW, JM, CA); Harris (NM3396), 29.8.00, 2 females and many young larvae on *Lotus coniculatus*; larvae on *Lotus* at Kinloch (NM4099) 30.8.00 (KB); Harris (NM3495) 29.8.00 (RK).

Nymphalidae

- 1590 *Vanessa atalanta* (Linnaeus). Red Admiral. Allt Slugan a Choillich, (nr Hydro Dam) (NM3998) 28.8.00; Kinloch (NM4099) 30.8.00 (KB); Coire Dubh (NM3897) 30.8.00 (RK).

- 1591 *Cynthia cardui* (Linnaeus) (= *Vanessa cardui* (Linnaeus)). Painted Lady. Kilmory, larva on *Cirsium arvense*, 27.8.00 (NG3503) (KB); Kinloch Glen on road (NM3999) 29.8.00 (CA); Kilmory Dunes (NG36040) imago and larva, 29.8.00; Harris (NM3495) 29.8.00 (RK).
- 1607 *Argynnis aglaja* (Linnaeus). Dark Green Fritillary. Harris (NM3396), raised beach, worn male, 29.8.00 (KB); Kilmory Dunes (NG3604) 27.8.00; Samhnan Insir (NG379043) 27.8.00; Harris (NM3495) 29.8.00 (RK).
- 1614 *Pararge aegeria* (Linnaeus). Speckled Wood. Kinloch (NM4099), one, 30.8.00; South Side Loch Scresort (NM4099, 4198 and 4199), several 31.9.00 (KB); Kinloch common on North Side (NM410999) 30.8.00; Kinloch Glen Nature Trail (NG3800-3900) 29.8.00 (CA).
- 1621 *Hipparchia semele* (Linnaeus). Grayling. Kilmory North East end of beach (NG367045) 27.8.00 (PW and JM); Samhnan Insir (NG379043) 27.8.00 (RK).
- 1626 *Maniola jurtina* (Linnaeus). Meadow Brown. Kilmory (NG3503 and NG3603), three imagines, 27.8.00; Kinloch Glen (NG4000), one, 31.8.00 (KB); Kilmory Graveyard (NG361037) and Kilmory Glen (NG365036 and 362032) 27.8.00 (JM, PW, CA).

Lasiocampidae

- 1637 *Lasiocampa quercus callunae* Palmer. Northern Eggar. Kinloch (NM4099), one small larva 30.8.00 (DP); an early larva on herbage, Kilmory (NG3603) 1.9.00 (KB).
- 1638 *Macrothylacia rubi* (Linnaeus). Fox Moth. Kilmory (NG3503, NG3600 and NG3603) 26.8.00, larvae common on various herbs; Kilmory South Tree Plot, 1.9.00 (NG3602) larva on *Salix aurita*; Kilmory North Tree Plot (NG3603), many, 1.9.00; Allt na Ba in Corrie (NM4094) one larva, 28.8.00 (KB); Kinloch Glen larvae common (NG3800) 29.8.00; Kilmory Glen and Coast (NG3603, 363008) 1.9.00 (JM, PW, CA); larvae, Kilmory (NG3604) and Samhnan Insir (NG379043) 27.8.00 (RK).
- 1640 *Euthrix potatoria* (Linnaeus). The Drinker. Kilmory (NG3503 and NG3603) 26.8.00, three small larvae on grass stems (KB); Kinloch, (NM4099), third grown larva, 30.8.00 (DP); larvae in Kinloch Glen (NG366044) 29.8.00, and Kilmory Glen (NG366044) 28.8.00 (CA); Kilmory Dunes (NG3604), Samhnan Insir (NG379043) and Kinloch Glen (NG 396000) 27.8.00 (RK).

Saturniidae

- 1643 *Saturnia pavonia* (Linnaeus). Emperor. Kilmory Fank (NG3600) 27.8.00, single larva; base rich area above Dibidil track (NM405942) 28.8.00, one fullgrown larva (KB).

Drepanidae

- 1655 *Tethes or* (Denis & Schiffermüller). Poplar Lutestring. South Side Loch Scresort (NM4198), a few larvae between leaves of aspen, 31.8.00; Kilmory North Tree Plot (NG3602), many vacated spinnings on aspen 1.9.00 (KB); Bagh na h-Uamha near Standing Stone (NM4197), larvae between leaves of aspen, 1.9.00 (RCW).

Geometridae

- 1716 *Rhodometra sacraria* (Linnaeus). Vestal. Kinloch Glen, single imago in MV trap (NG395001) 29.8.00 (PW, JM, CA, DAB).
- 1722 *Xanthorhoe designata* (Hufnagel). Flame Carpet. Kinloch (NM4099), one, 27.8.00 and another to light, 29.8.00 (KB); Kinloch Castle side, MV trap (NM401995) 24.8.00 (PW); MV trap at turbine (NM399994) 30.8.00, and Castle rear UV trap (NM400995) 30.8.00 (PW, DAB, CA, JM); Rose Garden (Play Park), Kinloch parasitised larva, 30.8.00 (CA); Kinloch Glen Peat Pool, Alder Wood MV and UV traps (NG395001, 396000) 29.8.00 (JM, PW, DAB, CA).
- 1728 *X. fluctuata* (Linnaeus). Garden Carpet. South Side Loch Scresort (NM4198) 31.8.00, one (KB); Harris Tree Plot, UV trap (NM338962) 1.9.00 (JM, CA).
- 1732 *Scotopteryx chenopodiata* (Linnaeus). Shaded Broad-Bar. Kilmory (NG3603) 27.8.00, several (KB); Kilmory Glen, netted, (NG365036) 27.8.00 (JM).
- 1742 *Camptogramma bilineata* (Linnaeus). Yellow Shell. Kilmory (NG3603), one imago, 27.8.00; Kilmory Fank Tree Plot (NG3600), one, 1.9.00 (KB); Kilmory Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, JM, CA).
- 1752 *Cosmorhoe ocellata* (Linnaeus). Purple Bar. Kilmory Glen Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, JM, CA).
- 1755 *Eulithis testata* (Linnaeus). Chevron. Kilmory (NG3603) 26.8.00; Kilmory South Tree Plot (NG3602) and Kilmory North Tree Plot (NG3602) 1.9.00; base rich area above Dibidil track (NM4094) 28.8.00; Harris (NM3495), several 29.8.00 (KB); North Side Loch Scresort (NM410999), UV trap, 30.8.00 (JM); MV trap, turbine at Kinloch (NM399994) 30.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00; open alder wood UV trap (NG394002) 29.8.00 (JM, PW, CA, DAB); Kilmory, common (NG3704) 27.8.00; Kilmory Streamside Tree Plot (NG364010), MV trap, 28.8.00 (JM, PW, CA); Harris Mausoleum enclosure, MV trap (NM336957) 1.9.00 (JM, CA).

- 1760 *Chloroclysta siterata* (Hufnagel). Red-Green Carpet. South Side Loch Sresort (NM4198), one, 31.8.00 (KB); North Side Loch Sresort (NM410999) 30.8.00; Harris Tree Plot (NM338962), UV trap, 1.9.00 (JM, CA).
- 1762 *C. citrata* (Linnaeus). Dark Marbled Carpet. Turbine, Kinloch, MV trap (NM399994) 30.8.00; Rose Garden (Play Park) (NM402995), UV trap, 31.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) and alder wood, UV trap (NG396000) 29.8.00 (PW, JM, CA, DAB); Kilmory Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, JM, CA); Harris Tree Plot (NM338962), UV trap, 1.9.00 (JM, CA); North Side Loch Sresort (NM410999), UV trap, 30.8.00 (JM).
- 1764 *C. truncata* (Hufnagel). Common Marbled Carpet. Kilmory (NG3503) 27.8.00, many (KB); Kilmory Fank (NG3600) 27.8.00, one by road; Kinloch (NM4099) rear Castle, 27.8.00; Dibidil track (NM4195) and Harris (NM3396) 29.8.00, a few; Harris Tree Plot (NM3396) 29.8.00, many; South Side Loch Sresort (NM4099, 4198, 4199), a few, 31.8.00; Kilmory Fank Tree Plot (NG3600) 1.9.00; Kilmory South Natural Regeneration Plot (NG3602) and Kilmory North Tree Plot (NG3603) 1.9.00 (KB); North Side Loch Sresort (NM410999), UV trap, 30.8.00 (JM); Kinloch Turbine, MV trap (NM399994) 30.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (JM, CA, PW, DAB); Kilmory Glen North and Fank Tree Plots (NG361032-363008) and Kilmory Coast (NG361038), netted; (JM); Harris Tree Plot (NM338962), UV trap, 1.9.00 (JM, CA).
- 1767 *Thera firmata* (Hübner). Pine Carpet. North Side Loch Sresort (NM410999), UV trap, 30.8.00; Kinloch Turbine, MV trap (NM399994) 30.8.00; Kinloch Glen Peat Pool MV trap (NG395001) 29.8.00; alder wood, UV trap (NG396000) 29.8.00; open alder, UV trap (NG394002) 29.8.00 (DAB, JM, CA, PW); Kilmory Streamside Tree Plot (NG364010) 28.8.00, MV trap (PW, JM, CA).
- 1768 *T. obeliscata* (Hübner). Grey Pine Carpet. Kinloch Turbine, MV trap (NM399994) 30.8.00; Peat Pool, Kinloch Glen (NG395001) 29.8.00; open alder woodland, UV trap (NG394002) 29.8.00 (DAB, JM, PW, CA); Harris Tree Plot, UV trap (NM338962) 1.9.00 (JM, CA).
- 1777 *Hydriomena furcata* (Thunberg). July Highflyer. Harris Tree Plot (NM3396), one, 29.8.00 (KB); North Side Loch Sresort, UV trap (NM410999) (JM); Kinloch Turbine, MV trap (NM399994) 30.8.00 (PW, JM, DAB, CA).
- 1797 *Epirrita autumnata* (Borkhausen). Autumnal Moth. Kinloch Castle side, MV trap (NM401995) 24.8.00 (PW); Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (PW, DAB, JM, CA); Harris Tree Plot, UV trap (NM338962) 1.9.00 (JM, CA).
- 1798 *E. filigrammaria* (Herrlich-Schäffer). Small Autumnal Moth. Kinloch Turbine, MV trap (NM399994) 30.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (PW, DAB, JM, CA); Harris Tree Plot (NM338962), UV trap, (JM, CA).
- 1809 *Perizoma didymata* (Linnaeus). Twin-Spot Carpet. Kilmory (NG3503 and NG 3603), many 27.8.00; Dibidil track (NM4098, 4195 and 4196) 28.8.00; Allt Slugan a Coilich near Hydro Dam, 28.8.00; Harris (NM3396), raised beach, a few 29.8.00; Kinloch (NM4099), two, 30.8.00 (KB); Guiridil (NG3101) 30.8.00; (GC); South Side Wood Loch Sresort (NM415990) 31.8.00; near New Pier (NM411990) 31.8.00; White Gates (NM404992) 31.8.00 (JM); Kinloch Glen Nature Trail, common on heather (NG375006) 29.8.00 (CA); Samhnan Insir (NG371041) 27.8.00; Kilmory Fank Tree Plot (NG363008) 27.8.00 (JM); Kilmory Streamside Tree Plot (NG364010), MV trap 27.8.00 (JM, PW,CA); Kilmory Fank Tree Plot (NG3600) 1.9.00, few (KB).
- 1817 *Eupithecia pulchellata* Stephens. Foxglove Pug. Kilmory (NG3603) 27.8.00, holes and larval feeding in seedheads of *Digitalis purpurea* (KB).
- 1828 *E. satyrata* (Hübner). Satyr Pug. Kilmory (NG3603) 27.8.00, single larva on *Calluna vulgaris* (KB).
- 1851 *Eupithecia virgaureata* Doubleday. Golden-Rod Pug. Kinloch Castle rear, UV trap (NM400995) and Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (JM, PW, DAB, CA).
- 1867 *Aplocera plagiata* (Linnaeus). Treble-Bar. Harris Tree Plot (NM338962), UV trap, 1.9.00 (JM, CA).
- 1873 *Venusia cambrica* Curtis. Welsh Wave. South Side Loch Sresort (NM4198), one, 31.8.00 (KB); North Side (NM410999), UV trap, 30.8.00 (JM); Kinloch Turbine, MV trap (NM399994) 30.8.00; Castle rear, UV trap, 30.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (JM, PW, CA, DAB).
- 1884 *Abraxas grossulariata* (Linnaeus). Magpie. Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (PW, JM, CA, DAB).
- 1887 *Lomaspilis marginata* (Linnaeus). Clouded Border. Kinloch Glen Peat Pool, MV trap, (NG395001), 29.8.00; open alder UV trap (NG394002) 29.8.00 (DAB, JM, CA, PW).
- 1906 *Opisthograptis luteolata* (Linnaeus). Brimstone Moth. Kinloch (NM4099), one, 30.8.00 (KB); Kinloch Turbine MV trap (NM399994) 30.8.00 (JM, CA, DAB, PW); larva, Kinloch (NM4090), reared, imago emerged 14.6.01 (CA).
- 1907 *Epione repandaria* (Hufnagel). Bordered Beauty. Kinloch Glen open alder woodland, UV trap (NG394002) 29.8.00 (PW, DAB, JM, CA); Kilmory Dunes, UV trap (NG363037) 28.8.00 (JM, CA, PW).

1941 *Alcis repandata* (Linnaeus). Mottled Beauty. Kinloch Castle rear (NM400995), UV trap, 30.8.00; Turbine, MV (NM399994) 30.8.00 (JM, CA, DAB, PW).

1961 *Campaea margaritata* (Linnaeus). Light Emerald. Kinloch Glen Peat Pool (NG395001), MV trap, 29.8.00 (JM, DAB, CA, PW).

Notodontidae

2003 *Nontodonta ziczac* (Linnaeus). Pebble Prominent. Larva, Dibidil track, Kinloch, one only, (NM404989) 31.8.00 (CA).

2007 *Pheosia tremula* (Clerck). Swallow Prominent. Kilmory North Tree Plot (NG3602), single larva on aspen, 1.9.00 (KB).

2008 *Ptilodon capucina* (Linnaeus). Coxcomb Prominent. Kinloch (NM4099), single half grown larva on alder, 30.8.00; South Side Loch Sresort (NM4198), single early larva feeding on oak, 31.8.00 (KB).

Lymantriidae

*2026 *Orgyia antiqua* (Linnaeus). Vapourer. Several males seen flying actively, Loch Sresort North shore (NM4199) 29.8.00 (DAB).

Arctiidae

2057 *Arctia caja* (Linnaeus). Garden Tiger. Kilmory (NG3503) 27.8.00, brood of early larvae on bramble (KB); Kinloch Castle side, MV trap (NM401995), one imago, 24.8.00 (PW).

2061 *Spilosoma luteum* (Huffnagel). Buff Ermine. Larvae on thistles at Kilmory (NG36 03) 30.8.00 (DAB).

2064 *Phragmatobia fuliginosa* (Linnaeus). Ruby Tiger. Kilmory (NG3503 and NG3603), several larvae on low herbs, 27.8.00 (KB); larvae, Kilmory and Kilmory Fank Tree Plot (NG371041 and NG363008) 27.8.00 (JM, CA); Kilmory Dunes (NG3604) 27.8.00 (RK).

Noctuidae

2082 *Euxoa nigricans* (Linnaeus). Garden Dart. Harris Tree Plot (NM338962), UV trap, 1.9.00; Mausoleum (NM336957), MV trap, 1.9.00 (JM, CA).

2104 *Standfussiana lucerneae* (Linnaeus). Northern Rustic. Harris Tree Plot (NM338962), UV trap (JM, CA).

2107 *Noctua pronuba* (Linnaeus). Large Yellow Underwing. Kinloch Castle side, MV trap (NM401995) 24.8.00; Castle rear (NM400995), UV trap, 30.8.00; Kinloch Rose Garden (Play Park) (NM402995), UV trap, 31.8.00 (CA, JM); Kinloch Glen Peat Pool (NG395001) 29.8.00, MV trap (PW, DAB, CA, JM); Kilmory Dunes (NG363037) UV trap, 28.8.00; Kilmory Burnside Tree Plot (NG364010), MV trap, 28.8.00 (JM, CA, PW); Harris Tree Plot (NM338962), UV trap, 1.9.00 (JM, CA).

2109 *N. comes* (Hübner). Lesser Yellow Underwing. North Side Loch Sresort (NM410999) 30.8.00, UV trap; Castle side, MV trap (NM401995) 24.8.00 (PW); Turbine, MV trap (NM399994) 30.8.00; Rose Garden (NM402995), UV trap, 31.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00; alder wood, UV trap (NG396000) 29.8.00 (JM, PW, CA, DAB); Kilmory Streamside Plot (NG364010), MV trap, 28.8.00 (JM, CA, PW); Harris Tree Plot (NM338962), UV trap, 1.9.00 (CA, JM); Dibidil Bothy (NM392927) (RCW).

2111 *N. janthe* (Borkhausen) (= *N. janthina auctorum*). Lesser Broad-Bordered Yellow Underwing. Kinloch (NM4099), near Castle, one, 27.8.00 (KB); Castle side (NM401995), MV, 24.8.00, abundant (PW); Turbine, MV trap (NM399994) 30.8.00; Rose Garden (Play Park) (NM402995), UV trap, 31.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) and Alder wood (NG396000) 29.8.00 (DAB, JM, CA, PW); Harris Tree Plot (NM338962) 1.9.00, UV trap (CA, JM).

2117 *Eugnorisma (=Paradiarista) glareosa* (Esper). Autumnal Rustic. North Side Loch Sresort (NM410999), UV trap, 30.8.00; Kinloch Turbine, MV (NM399994) 30.8.00; Castle rear (NM400995), UV trap, 30.8.00; Rose Garden (NM402995), UV trap, 31.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00; alder wood, UV trap (NG396000) 29.8.00; open alder, UV trap (NG394002) 29.8.00 (PW, DAB, JM, CA); Kilmory Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, JM, CA); Harris Tree Plot (NM338962) 1.9.00, UV trap (JM, CA).

2118 *Lycophotia porphyrea* (Denis & Schiffermüller). True Lovers Knot. Larva, Dibidil Track (NM4098) 31.8.00 (CA); Kinloch Glen alder wood, UV trap (NG396000) 29.8.00 (DAB, PW, JM, CA).

2119 *Peridroma saucia* (Hübner). Pearly Underwing. Larva, Kinloch, 30.8.00 (CA det. Roy Leverton). There is a slight authenticity problem over this record. The label on its container was, unfortunately, damaged during the winter. Very faint lettering was still discernable, as "? Garden". CA was collecting in the former Rose Garden now the children's play park (NM402992) on 30.8.00 and she is fairly certain that this was one of the larvae found on that day. Two earlier records of this species having bred, both in the vicinity of the Rose Garden, 22.8.60 and 20.9.66, coll. P. Wormell are significant. This is discussed further in the preamble.

2120 *Diarsia mendica* (Fabricius). Ingrailed Clay. Kinloch Castle side (NM401995) 24.8.00, MV trap (PW).

2121 *D. dahlii* (Hübner). Barred Chestnut. Kinloch Castle rear (NM400995), UV trap, 30.8.00; Rose Garden (NM402995), UV trap, 31.8.00; Turbine, MV trap (NM399994) 30.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (PW, DAB, JM, CA); Kilmory Glen Streamside Tree Plot (NG364010), MV trap,

- 28.8.00 (PW, JM, CA); Harris Tree Plot, UV trap (NM338962) and Mausoleum, MV trap (NM336957) 1.9.00 (JM, CA).
- 2130 *Xestia baja* (Denis & Schiffermüller). Dotted Clay. Kinloch Rose Garden (NM402995) 31.8.00; Kinloch Glen Peat Pool, MV trap (NG395001), 29.8.00 (PW, DAB, JM, CA); Harris Tree Plot (NM338962), UV trap, 1.9.00 (JM, CA).
- 2132 *X. castanea* (Esper). Neglected Rustic. Kinloch Turbine, MV trap (NM399994) 30.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (PW, DAB, JM, CA); Harris Tree Plot (NM338962), UV trap, 1.9.00 (JM, CA).
- 2134 *X. xanthographa* (Denis & Schiffermüller). Square-Spot Rustic. Kinloch (NM4099), near Castle, 27.8.00; Kilmory in Malaise Trap (NG3603), one, 31.8.00 (KB); Kinloch Castle rear, UV trap (NM400995) and Rose Garden (NM402995), UV trap, 31.8.00; Turbine, MV trap (NM399994) 30.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00; alder wood, UV trap (NG396000) 29.8.00; open alder UV trap (NG394002) 29.8.00 (PW, DAB, JM, CA); Kilmory Glen Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, CA, JM); Harris Tree Plot (NM338962), UV trap and Mausoleum, MV trap (NM336957), 1.9.00 (JM, CA).
- 2135 *X. agathina* (Duponchel). Heath Rustic. North Side Loch Scresort (NM410999), UV trap, 30.8.00 (JM); Kinloch Turbine, MV trap (NM399994) 30.8.00; Larva on Dibdil Track (NM4098) 31.8.00 (CA); Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00; alder wood, UV trap (NG396000) 29.8.00; open alder, UV trap (NG394002) 29.8.00 (PW, CA, JM, DAB).
- 2142 *Anarta myrtili* (Linnaeus). Beautiful Yellow Underwing. Larva on heather, Kinloch Glen (NG372001) 30.8.00 (DAB).
- 2176 *Cerapteryx graminis* (Linnaeus). Antler Moth. Kinloch near Castle (NM4099) 27.8.00, one imago (KB) and another at a window, 26.8.00 (PW); Kilmory Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, JM, CA); Harris Tree Plot (NM338962), UV trap, and Mausoleum, MV trap (NM336957) 1.9.00 (JM, CA); Kilmory Dunes (NG3604) 27.8.00 (RK).
- 2177 *Tholera cespitis* (Denis & Schiffermüller). Hedge Rustic. Kinloch Turbine, MV trap (NM399994) 30.8.00 (PW, CA, DAB, JM); Kilmory Streamside Tree Plot (NG364010) 28.8.00 (JM, CA, PW).
- 2198 *Mythimna impura* (Hübner). Smoky Wainscot. Kinloch Turbine, MV trap (NM399994) 30.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (PW, JM, CA, DAB).
- 2225 *Brachylomia viminalis* (Fabricius). Minor Shoulder Knot. Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (JM, PW, CA, DAB); Kilmory Glen Streamside Plot (NG364010), MV trap, 28.8.00 (PW, CA, JM).
- 2232 *Aporophyla nigra* (Haworth). Black Rustic. Kinloch Turbine, MV trap (NM399994) 30.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (DAB, PW, JM, CA); Kilmory Glen Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, JM, CA); Harris Tree Plot (NM338962), UV trap, 1.9.00 (JM, CA).
- 2254 *Antitype chi* (Linnaeus). Grey Chi. Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (DAB, PW, JM, CA).
- 2270 *Omphaloscelis lunosa* (Haworth). Lunar Underwing. Harris Mausoleum, MV trap (NM336957) 1.9.00 (JM, CA).
- 2273 *Xanthia togata* (Esper). Pink-Barred Sallow. Kinloch Turbine, MV trap (NM399994) 30.8.00; Kinloch Castle rear (NM400995), UV trap, 30.8.00 (DAB, PW, JM, CA); Rose Garden (NM402995), UV trap, 31.8.00; Peat Pool, MV trap (NG395001) 29.8.00 (DAB, PW, CA, JM); Kilmory Glen Streamside Plot (NM338962), UV trap, 28.8.00 (JM, CA, PW); Harris Tree Plot (NM338962), UV trap, 1.9.00 (JM, CA).
- 2274 *X. icteritia* (Hufnagel). Sallow. Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00; open alder woodland, UV trap (NG394002) 29.8.00 (PW, DAB, CA, JM); Kilmory Glen Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, JM, CA).
- 2280 *Acrionicta leporina* (Linnaeus). Miller. South Side Loch Scresort (NM4198), single larva on alder, 31.8.00 (KB); Kinloch Glen Nature Trail (NG397000), reared, imago emerged 4.6.01 (CA). These confirm an earlier record (Harrison 1955).
- 2284 *A. psi* (Linnaeus). Grey Dagger. Kilmory (NG3603) 27.8.00, single larva on rowan; Kinloch (NM4099), another larva on rowan; South Side Loch Scresort, larvae on rose and aspen (NM4198) (KB); Larvae, Kinloch Glen Nature Trail (NM3999) 29.8.00, and Kilmory, on hawthorn (NG361038) 27.8.00 (CA).
- 2289 *A. ruficis* (Linnaeus). Knot Grass. Kilmory (NG3603) 27.8.00, larvae on scabious and rose, and 1.9.00, on bramble; Harris (NM3396), one larva swept, 29.8.00 (KB); Kilmory, larva (NG361038) 28.8.00, and Kinloch, larvae on assorted herbage including *Succisa pratensis*, one pupated, imago emerged 14.6.01 (CA).
- 2299 *Amphipyra tragopoginis* (Clerck). Mouse Moth. Harris Tree Plot (NM338962), UV trap, 1.9.00 (JM, CA).
- 2306 *Phlogophora meticulosa* (Linnaeus). Angle Shades. Kilmory (NG3603) 27.8.00, larva beaten from rose; one imago emerged, 16.10.00 (KB).
- 2321 *Apamea monoglypha* (Hufnagel). Dark Arches. Kinloch Rose Garden (NM402995), UV trap, 31.8.00 (JM, CA); Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (PW, JM, CA, DAB); Kilmory Glen

- Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, CA, JM); Harris Tree Plot (NM338962) 1.9.00 (JM, CA); Harris Mausoleum (NM33695) 1.9.00 (JM, CA).
- 2326 *A. crenata* (Hufnagel). Clouded-Bordered Brindle. Kinloch Castle side, MV trap, 24.8.00 (PW).
- 2343 *Mesapamea secalis* (Linnaeus). Common Rustic. Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00; open alder woodland, UV trap (NG394002) 29.8.00 (DAB, PW, JM, CA); Kilmory Dunes, UV trap (NG363037) 28.8.00; Kilmory Glen Streamside Tree Plot (NG364010), MV trap, 28.8.00 (JM, CA, PW).
- 2350 *Chortodes pygmina* (Haworth). Small Wainscot. Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (PW).
- 2353 *Luperina testacea* (Denis & Schiffermüller). Flounced Rustic. Kilmory Dunes, UV trap (NG363037) 28.8.00 (CA, JM, PW).
- 2357 *Amphipoea lucens* (Freyer). Large Ear. Kinloch Turbine, MV trap (NM399994) 30.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (PW, DAB, JM, CA); Kilmory Dunes, UV trap (NG363037) 28.8.00; Kilmory Glen Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, JM, CA); Harris Tree Plot (NM338962), UV trap, 1.9.00 (JM, CA); netted near Shamhnan Insir (NG373043) 27.8.00 (JM). Specimens were collected from all of the above localities totalling 21 imagines all of which turned out to be *A. lucens*.
- 2361 *Hydraecia micacea* (Esper). Rosy Rustic. Kinloch Castle side, MV trap, 24.8.00 (PW); Rose Garden (NM402995), UV trap, 31.8.00 (JM, CA); Kilmory Glen, Stream Plot (NG364010) 28.8.00 (JM, CA, PW).
- 2367 *Celaena haworthii* (Curtis). Haworth's Minor. Fionchra (NG338004) 1.9.00 (GC); Kinloch Turbine MV trap (NM399994) 30.8.00 (PW, DAB, JM, CA).
- 2368 *C. leucostigma* (Hübner). Crescent. Kinloch (NM4099) one, 30.8.00 (KB); Kinloch Turbine, MV trap (NM399994) 30.8.00; Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00; open alder woodland, UV trap (NG394002) 29.8.00 (PW, DAB, CA, JM); Kilmory Dunes, UV trap (NG363037) 28.8.00; Kilmory Streamside Tree Plot (NG364010), MV trap, 28.8.00 (PW, JM, CA).
- 2441 *Autographa gamma* (Linnaeus). Silver Y. Askival (NM3894), one, 28.8.00; Kinloch (NM4099) 30.8.00 (KB); Kinloch Glen Peat Pool, MV trap (NG395001) 29.8.00 (PW, DAB, CA, JM).
- 2477 *Hyphen proboscidalis* (Linnaeus). Snout. Kinloch Castle side, MV trap, 24.8.00 (PW); Rose Garden larva parasitised, 31.8.00 (CA).

ABBREVIATIONS

Moth Traps: MV trap = Mercury Vapour Trap
 UV trap = Ultraviolet Trap

* = hitherto unrecorded on Rum

Grid references are indicated in brackets.

Initials of contributors are indicated in brackets at the end of each entry:

The numbering and nomenclature follow the CHECKLIST OF LEPIDOPTERA RECORDED FROM THE BRITISH ISLES. J.D. BRADLEY (1998)

COLEOPTERA

The beetles received a great deal of attention producing no less than 42 previously unrecorded species. Roger and Rosy Key, who had attended the 1990 Rum gathering, produced a substantial amount of new information on the distribution of species already recorded and added 6 new species to the checklist. We were honoured to have R Colin Welch, who had contributed substantially to the 1969 team survey, following this up with additional visits in the 1970s. During the 2000 survey he recorded over 300 species, 33 of which were new to the Rum checklist. Shona Blake concentrated on the Carabidae and added 3 previously unrecorded species. There were also contributions from David Phillips and Keith Bland.

The above figures include the results of pitfall trappings carried out by David Beaumont on Hallival, in the Kilmory Fank, Harris and Guiridil Tree Plots and behind The White House at Kinloch between May and July 2000. Without the initiative he took in setting out and retrieving these traps, the following list would not have been quite so impressive.

Colin Welch's comments on Coleoptera recorded during the survey are as follows:

"The most remarkable outcome of the Coleoptera survey of Rum during the Scottish Entomologists' visit in late August/early September 2000 was the unexpectedly large number of species recorded for the first time from the island. A substantial beetle fauna had already been recorded during extensive surveys over the previous 40 years. By 1974 there were confirmed records of 523 species from Rum (Wormell, 1982), which had increased to 551 by 1999 (Wormell, in prep.). The 2000 survey raised this total to 593 species, an impressive fauna for an island with a limited range of habitats.

The recent programme of re-afforestation north of Kinloch Glen has, as yet, had little or no influence on the coleopterous fauna of Rum. Isolated small experimental tree plots planted in 1959 have proved to be very slowly colonised by woodland species. Only the Kinloch Policy woodlands planted since the mid-nineteenth century support

a true woodland beetle fauna. Four specimens of *Gyrophaena poweri* Crotch were found in *Suillus* fungus during the 2000 survey. This rarely recorded staphylinid was not previously known from Scotland and the most northerly British site was from SE Yorkshire (Welch, 2001). Later, (Welch 2003) *Gyrophaena* from the Hunterian Museum & Art Gallery, Glasgow were checked and found to contain earlier Scottish material collected by Dr Roy Crowson at two Ayrshire localities; Girvan in 1944 and Dalrymple Wood in 1979.

The other surprising discovery resulted from a programme of pitfall trapping carried out by David Beaumont prior to the arrival of the 2000 survey party. A series of traps on the eroded northern slopes of Hallival caught large numbers of adult and larval *Amara quenseli* (Shoen). This nationally scarce carabid has a British distribution restricted to the central Scottish Highlands with the exception of outlying records from Nairn and Rum (Luff, 1998). *A. quenseli* was previously known from a single specimen collected on Hallival summit in June 1963 (Steele & Woodroffe, 1969; Wormell, 1982). An earlier survey in 1962 at the same time of the year as the 2000 survey failed to find this species. It seems probable that it lives deep in sand and gravel deposits only venturing onto the surface at night, thus evading usual methods of hand collecting."

The litter samples send to Gordon Corbet in December 2000 by Kathy Sayer and Malcolm Whitmore also produced no less than 6 staphylinid beetles, one of which, *Atheta volans* (Scriba) (det. R. C. Welch), proved to be a new Rum record.

During 2002 and 2003 a programme of pitfall trapping has been embarked upon by SNH from which, it would seem, only Carabidae, along with spiders, are being investigated.

Colin's comments are, again, appropriate.

"A current programme of pitfall trapping at numerous sites throughout the island, including some at which no beetle collecting has previously been undertaken, can be expected to raise the total species of Rum Coleoptera to over 600 (but only provided all specimens are identified, and not just selected families such as Carabidae)."

Colin Johnston's record of *Atomaria nigripennis* (Kng) from the Kinloch area (1993 Atlas of Atomariinae) is included in the following list as are Carabidae collected by Chris Preston in July 2000.

Carabidae

Cicindela campestris Linnaeus. Harris (NM3395) August 2000 (SB); Harris burn (NM3396) 29.8.00 (KB); Samhnán Insir (NG379043) 27.8.00 (RK).

Cychrus caraboides (Linnaeus). Dibidil track (NM4196) August 2000 (SB); Harris (NM3495); Loch Fiachanis (NM3594); Barkeval summit (NM3797) 30.8.00; Guirdil (RK).

Carabus arvensis (Herbst). Specimens collected on Rum in July 2000 by C. D. Preston (determined and retained by Mark Telfer).

C. glabratus (Paykull). Specimens collected on Rum, July 2000, by C. D. Preston (determined and retained by Mark Telfer); Kinloch Castle woodlands (NM4099) 27.8.00, 28.8.00, 31.8.00 and 1.9.00 (RCW); larva in pitfall trap behind office (D. B. det. RCW).

C. granulatus Linnaeus. Harris (NM3395) August 2000 (SB); Guirdil (NG319008) 27 July-30 August, pitfall traps (DB det. RK).

C. nemoralis Mueller. Kinloch (NM4099) pitfall traps, August 2000 (DB det. SB).

C. problematicus Herbst. Hallival (NM3996) below summit, 28.8.00, one under stone; Dibidil 30.8.00, one dead in dry flood refuse in stream above beach (RCW); Askival, 600 m (NM3995) (RCW); Hallival (NM3996) August 2000, pitfall trap (DB det. RK); Barkeval summit (NM3797) 30.8.00 (RK).

Leistus fulvibarbis Dejean. Guirdil Glen Tree Plot, 2, pitfall traps (NG319008) (DB det. RCW).

L. rufescens (Fabricius). Kilmory Fank (NG3603) 2 July-11 August 2000 and 30.8.00 (DB det. RK).

Nebria brevicollis (Fabricius). Hallival, one under stone 1.9.00 and pitfall traps 27 July-28 August 2000, 12 (DB det. RCW); Harris, (NM3395) and (NM3495); Harris Tree Plot; pitfall traps August 2000; Kinloch (NM4099) pitfall traps August 2000 (SB).

N. gyllenhali (Schoenhr). Hallival (NM392967) pitfall traps 27 July-28 August 2000; adults very common and 5 larvae (DB det. RCW); Hallival, (NM3996) 500 m (SB); Hallival (NM3996), pitfall traps, 25 (DB. det. RK).

N. salina Fairmaire et Laboulbene. Coire Dubh (NM3992), two on silt/gravel beside stream; Harris Tree Plot (NM337962), 4 under pine log on roadside verge outside gate (RCW); Hallival pitfall traps (NM392967) 27 July-28 August 2000 (DB det. RCW); Kilmory Dunes (NG3604) 27.8.00 (RK); Bealach an Oir (NM3895) 28.8.00 (DP); Hallival (NM3996) 28.8.00 (RK); Harris (NM3495) 29.8.00; Barkeval summit (NM3797) 30.8.00 (RK).

Notiophilus aquaticus (Linnaeus). Kilmory Dunes (NG3604) 27.8.00 (RK).

N. biguttatus (Fabricius). Harris Tree Plot (NM337962) 29.8.00, 2, sieving moss on *Lasius flavus* mound; Kinloch Castle woods (NM4099) 1.9.00, one larva sieving moss (RCW); Guirdil Glen (NG319008), one adult and 6 larvae in pitfall traps; Hallival, pitfall trap (NM39967) 1.9.00 and one under stone (DB det. RCW); Kinloch, 4 in pitfall traps behind post office (D. B. det. RCW); Hallival (NM3996) 500 m; Kilmory Fank (NG3600), pitfall traps; Harris Tree Plot (NM338962) (DB det SB); Kinloch, near White House (NM4099) 2 July-28 August 2000, common (DB det RK); Hallival (NM3996) 28.8.00; Harris (NM3495) 29.8.00; Barkeval summit (NM3797) 30.8.00 (RK).

N. germinyi Fauvel. Hallival (NM392967), pitfall traps, 27 July-28 August 2000 (DB det. RCW); Askival (NM33995) 27.8.00; Barkeval summit (NM3797) 30.8.00 (RK).

Loricera pilicornis (Fabricius). Coire Dubh (NM3998) 28.8.00 on silt/gravel beside stream (RCW); Guirdil Glen Tree Plot 1.9.00 one larva in pitfall trap; Harris Tree Plot 27 July-31 August 00; Kinloch Castle woodlands 27 July-1 Sept 00, one in pitfall trap behind the White House (DB det RCW); Kilmory Fank Tree Plot (NG3600), pitfall traps; Harris Tree Plot (NM338962), pitfall traps; Kinloch (NM4099) pitfall traps; Kinloch, behind the White House (NM4099), pitfall traps, 2.8.00 (DB det. RK); Loch Fiachanis (NM3594) 29.8.00; Loch Gainmhich (NM3798) 30.8.00 (RK).

Clivina fossor (Linnaeus). Hallival, one under juniper, one under stone (N392967) 1.9.00 (DB.); Harris (NM338962) and Harris Tree Plot (NM338962), pitfall traps August 2000 (DB det SB); Harris (NM3395) (SB); Hallival (NM3797) 30.8.00; Barkeval summit (NM3797) 30.8.00 (RK).

Brosicus cephalotes (Linnaeus). Kilmory (NG3603) (SB).

Miscodera arctica (Paykull). Hallival (NM3996) August 2000, pitfall traps (DB det RK). [Nat Scarce]

Petrobius assimilis Chaudoir. Hallival (NM3996) 28.8.00; (RK).

Trechus obtusus Erichson. Coire Dubh (NM3998) 28.8.00, 3 under stones; Hallival at base of summit, 2 sieving moss; Bagh na h-Uamha (NM420971) 1.9.00 sieving *Molinia* litter in sink hole above beach near patch of alders (RCW); Guirdil Glen Tree Plot (NG319008) 27 July-1 September, 2 in pitfall traps; Hallival, in pitfall traps, 27 July-28 August 2000, 9 under juniper, one under stone (NM392967); Harris Tree Plot 27 July-31 August 00 (NM337962), 2 in pitfall traps; Kinloch Castle woodlands (NM4099) 27 July-1 September 00, 4 in pitfall traps behind the White House (DB det RCW); Askival (NM3995) 600 m; Kilmory (NG3504) (SB); Harris Tree Plot (NM338962), pitfall traps and Kinloch (NM4099), pitfall traps (DB det. SB); Hallival (NM3996), 11; behind the White House (NM4099), 7; Kilmory Fank (NG3603) 27 July-30 August 00, pitfall traps; (DB det. RK); Kilmory Dunes (NG3604) 27.8.00; Hallival (NM3996) 29.8.00; Loch Fiachanis (NM3594) and Barkeval summit (NM3797) 30.8.00 (RK).

Bembidion atrocoeruleum Stephens. Coire Dubh (NM3998) 28.8.00, one ♂, one ♀, on silt and gravel beside stream (RCW); Kilmory burn (NG3600) (SB).

B. bipunctatum (Linnaeus). Coire Dubh (NM3998) 28.8.00, running over gravelly area beside stream (RCW); Hallival pitfall traps 27 July-28 August 00 (NM337962), one (DB det RCW), one (RK det RK).

B. lampros (Herbst). Harris Mausoleum (NM3395) 29.8.00, under stones; Kinloch beside the White House; one above beach (RCW).

**B. bruxellense* Wesmael. Hallival (NM3996) 27 July-31 August 00, one (DB det. RK).

B. tetracolum Say. Kilmory Dunes (NM3495) 29.8.00 (RK).

Pterostichus madidus (Fabricius). Harris Mausoleum (NM3395) 29.8.00; Kinloch (NM4099), 2 under stones behind the White House; Port na Caranean (NG424988) 1.9.00, crawling on path (RCW); Harris Tree Plot 27 July-31 August 00, one in pitfall trap; Kinloch Castle woods 27 July-31 August 00, 3 in pitfall traps behind the White House (DB det. RCW); Harris (NM3395) and Dibidil track (NM4098) (SB); Harris Tree Plot (NM338962) and Kinloch (NM4099), pitfall traps (DB det. SB); Harris (NM3495) 29.8.00 (RK).

P. niger (Schaller). Coire Dubh (NM3998) 28.8.00 crawling on path (RCW); Kilmory Fank (NG3600), pitfall traps (DB det. SB); Dibidil track (NM4093) (SB); Guirdil (NG319008), 3 May-August (DB det. RK).

P. melanarius (Illiger). Kilmory Fank (NG3600), pitfall traps, July-August 00; Kinloch, pitfall traps (NM4099) (DB det. SB); Guirdil (NG319008) May-August, 2 (DB det. RK).

P. nigrita (Paykull) sensu stricto. Kilmory (NG3504) (SB); Kinloch, pitfall traps (NM4099); Harris Tree Plot (NM338962), pitfall traps (DB det. SB); Kinloch (NM4099) 27.8.00, one ♀, in seaweed on shore; Harris Tree Plot (NM337962) 29.8.00, one dead sieving moss on *Lassius flavus* mound; Harris Mausoleum (NM3395) 29.8.00, under stone on grassy lawn above beach; Dibidil (NM3992) 30.8.00, one ♂, one ♀, sieving moss below bothy; Kinloch Castle woods (NM4099) 31.8.00, in compost heap in vegetable garden (RCW); behind the White House, pitfall traps (NM4099) 27 July-1 September (DB det. RCW).

P. strenuus (Panzer). Dibidil (NM3992) 30.8.00, 4, sieving moss below bothy (RCW); Harris Tree Plot, pitfall traps (NM338962) (DB det. SB).

Abax parallelepipedus (Piller & Mitterpacher). Harris Tree Plot 27 July-31 August 2000, pitfall traps (NM337962); pitfall traps behind the White House, Kinloch (NM402992) 27 July-1 September 2000 (DB det. RCW); Kilmory Fank (NG3600), pitfall traps (DB det. SB); Barkeval summit (NM3797) 30.8.00 (RK); Guirdil (NG319008) (May 2000-August 2000), pitfall traps, 3 (DB det. RK).

Calathus fuscipes (Goetz). Harris Mausoleum (NM3395), one under stone on grassy lawn above beach 29.8.00; Harris, east of boulder beach (NM3495) 29.8.00, one live, one dead, under stones (RCW); Harris (NM3395) (SB); Kilmory Dunes (NG3604) 27.8.00; Harris (NM3495) 29.8.00; Loch Fiachanis (NM3594) 29.8.00 (RK).

C. melanocephalus (Linnaeus). Kilmory Bay (NG3603) 27.8.00, 2 under driftwood on beach. Harris east of boulder beach, 29.8.00 (NM3495) two under stones (RCW); Harris (NM3395); Kilmory (NG3603 and 3504) (SB); Hallival (NM3996) 28.8.00, ♂; Harris (NM3495) 29.8.00 (RK).

C. mollis (Marshall). Kilmory Bay (NG3604) 27.8.00, one ♂ under driftwood on beach (RCW); Kilmory (NG3603) (SB); Kilmory Dunes (NG3604) 27.8.00 (RK).

Olisthopus rotundatus (Paykull). Hallival pitfall traps, 27 July-28 August 2000 (NM392967), 30+ and 2 under juniper (DB det. RCW); Coire Dubh path (NM3999); Allt nam Ba, 400 m (SB); Hallival (NM3996), 26 July-28 August 2000, pitfall traps, 11 (DB det. RK); Hallival (NM3996) 28.8.00; Harris (NM3495) 29.8.00; Barkeval summit (NM3797) 30.8.00 (RK).

Agonum albipes (Fabricius). Port na Caranean (NG424988), 2 in rotten seaweed at top of gully (RCW); Askival 450 m (NM3995) (SB); Kilmory Dunes (NG3604) 27.8.00; Harris (NM3495) 29.8.00; Loch Fiachanis (NM3594) 29.8.00 (RK).

A. gracile Sturm. Harris (NM3395) (SB).

A. muelleri (Herbst). Harris (NM3395) (SB); Harris Tree Plot (NM337962) 29.8.00, under logs by gate; Harris Mausoleum (NM3395) 29.8.00, under stones; Kinloch woods (NM4099), beside the White House, 4 and one above beach (RCW).

Amara aenea (Degeer). Hallival (NM3996) 27 July-31 August 2000, pitfall trap, one (DB det. RK).

A. quenseli (Schoen). Hallival, pitfall traps (NM392967) 27 July-28 August 2000, adults abundant and 5 larvae (DB det. RCW), also (DB det. SB) and 73 adults (DB det. RK); Hallival 28.8.00, 4 ♂♂, 5 ♀♀ (NM3996); (RK).

Harpalus latus (Linnaeus). Barkeval summit (NM3797) 30.8.00 (RK).

H. rufipes (Degeer). Kinloch Castle woods (NM4099), sieving compost heap, 31.8.00 (RCW).

Trichocellus cognatus (Gyllenhal). Hallival (NM3996) 28.8.00 (RK).

Cymindis vaporariorum (Linnaeus). Hallival, 27 July-28 August 2000, one in pitfall trap (DB det. RCW); Barkeval summit (NM3797) 30.8.00 (RK).

Dytiscidae

**Nebrioporus depressus elegans* (Panzer) (= *Potamonectes depressus elegans* (Panzer)). Loch Fiachanis (NM3594) 29.8.00 (RK).

Hydroporus longulus Mulsant. Coire Dubh (NM3998), one ♀ in pool in gravel area beside stream, 28.8.00 (RCW).

Agabus bipustulatus (Linnaeus). Coire Dubh (NM3998), one ♀ in small stagnant pool, 28.8.00 (RCW); Loch Gainmich (NM3798) 30.8.00 (RK).

A. guttatus (Paykull). Coire Dubh (NM3897) 28.8.00 (RK).

Gyrinidae

Gyrinus substriatus Stephens. Loch Gainmich (NM3798) 30.8.00 (RK).

Hydrophilidae

Helophorus flavipes (Fabricius). Harris east of boulder beach (NM3495) 29.8.00, one ♀ in rotting seaweed on boulder beach (RCW).

Ceryon atomarius (Fabricius). Kilmory Dunes (NG3604) 27.8.00 (RK).

C. depressus Stephens. Kilmory Bay (NG3603) 27.8.00, one in dead gull on beach (RCW).

C. haemorrhoidalis (Fabricius). Kilmory Bay (NG3603) and (NG3604), single adults in horse dung (RCW); Guirdil (NG319008), May-August 2000, pitfall trap (DB det. RK).

C. melanocephalus (Linnaeus). Kilmory Bay (NG3603) and (NG3604), 23 in horse dung and 4 in deer dung; Hallival shearwater greens, 6 in deer dung on path; Harris Mausoleum (NM3395) 29.8.00, 14 in cattle dung; Harris east of boulder beach (NM3495) 29.8.00, in deer dung; Dibidil (NM3992) 30.8.00, 2 in deer dung on lawn above beach (RCW). Kilmory Dunes (NG3604) 27.8.00; Hallival (NM3996) 28.8.00 (RK).

Megasternum obscurum (Marshall). Kilmory Cottage (NG3503) 27.8.00, 2 in deer skull; Kinloch Castle woods (NM4099) 31.8.00, sieving compost heap; 1.9.00, 14, sieving moss (RCW); Guirdil Glen Tree Plot, July-1 September 2000, 13 in pitfall traps; Harris Plot (NM337962), 2 in pitfall traps 27 July-31 August 2000; Kinloch, behind the White House (NM4099), one in pitfall trap (DB det. RCW), also 11 in pitfall traps (NM4099) (DB det. RK); Kilmory Fank (NG3603), pitfall traps, 18, 2 July-11 August 2000 and one, 30.8.00; Kilmory Dunes (NG3604) 27.8.00, 17, pitfall traps, May-August 2000 (DB det. RK).

Anacaena globulus (Paykull). Kinloch, behind the White House (NM4099) 27 July-30 August 2000, 9, pitfall traps (DB det. RK) and 5 (DB det. RCW); Guirdil Glen (NG319008), pitfall traps in Tree Plot July-1 September 2000; Harris Tree Plot (NM337962) 27 July-31 August 2000, 14 in pitfall traps (DB det. RCW); Dibidil (NM3992), 2, sieving moss in stream trickle, 30.8.00; Kinloch Castle woodland (NM4099) 1.9.00, one ♀ sieving litter under rotten fungi near generator hut, also 4 sieving moss (RCW). Kilmory Fank (NG3603) 2 July-30 August; Guirdil (NG3603) May-August 2000; (DB det. RK); Kinloch woods (NM401997) December 2000, from leaf litter/top soil, one (K. Sayer det. RCW).

Ptiliidae

Ptenidium punctatum (Gyllenhal). Harris east of boulder beach (NM3495) 29.8.00, in rotting seaweed (RCW).

Nanoptilium kunzei (Heer). Dibidil (NM3992) one ♀ in deer dung on lawn above beach. Kinloch Castle woodlands (NM4099), one ♂ in rotten fungus near generator hut, 2 ♂♂ in fungi behind the White House 31.8.00 (RCW).

**Acrotrichis cognata* (Matthews). Kilmory Bay east (NG3604), one ♀ in horse dung; Kilmory Fank Tree Plot (NG 362008) 27.8.00, 3 ♀♀ sieving litter under oak and pine. Kinloch Castle woodlands (NM4099) 31.8.00, 2 ♀♀ in rotten fungus near Turbine House (RCW).

A. grandicollis (Mannerheim). Kilmory Bay east (NG 3604) 27.8.00, 30 ♂♂ and ♀♀ in horse dung; Harris Mausoleum (NM3395) 29.8.00, in cattle dung; Dibidil (NM3992) 30.8.00, 2 in deer dung on lawn above beach (RCW).

A. intermedia (Gillmeister). Kilmory Fank Tree Plot (NG362008) 27.8.00, common sieving litter under oak and pine; Kinloch Castle woodlands (NM4099) 28.8.00, 4 in *Suillus* beside path near generator house; Harris Tree Plot (NM337962) 29.8.00, 2 ♀♀ sieving moss on *Lasius flavus* mound; Kinloch Castle woodlands (NM4099) 1.9.00, 4 sieving moss; (RCW). Guirdil Glen (NG 319008) May-August 2000, 12 in pitfall traps; (DB det. RCW); Kinloch (NM401997) December, 6 from deciduous leaf litter/topsoil; (K. Sayer det. RCW).

A. rugulosa Rosskothén. Kilmory Fank Tree Plot (NG362008) 27.8.00, 3 ♀♀ in litter under oak and Scots pine; Harris Tree Plot (NM337962) 29.8.00, 4 ♂♂, 5 ♀♀, sieving moss on *Lasius flavus* mound; Harris Mausoleum (NM3495) 29.8.00, one ♀ in cattle dung; Kinloch Farm barns (NM4099) 31.8.00, 5 ♂♂, 2 ♀♀, sieving hay (RCW); Kinloch woodlands (NM401997) December 2000, 6 from leaf litter and topsoil (K. Sayer det. RCW).

**A. silvatica* Rosskothén. Kilmory Fank Tree Plot (NG362008) 27.8.00, one ♀ in litter under oak and pine; (RCW); 2000.

Leiodidae

Nargus velox (Spence). Kinloch Castle woodlands (NM4099) 1.9.00, sieving litter under rotten fungi near Turbine House, 3 ♂♂, one ♀ sieving moss; (RCW); Kilmory Fank (NG3603), pitfall traps, 2 July-11 August, one (DB det. RK).

**Catops fuliginosus* (Erichson). Kinloch Castle woodlands (NM4099) 1.9.00, one ♂, one ♀, sieving moss (RCW).

C. tristis (Panzer). Guirdil (NG319008), pitfall traps May-August (DB det RK).

Silphidae

Aclypea opaca (Linnaeus). Kinloch Castle woods (NM4099), one larva sieving moss (RCW).

Silpha atrata Linnaeus. Port na Caranean (NG424988) 1.9.00, under plank on beach. Kinloch Castle woods (NM4099) 1.9.00, one larva sieving moss (RCW); Kinloch behind the White House (NM4099), pitfall traps 2 July-August 2000, 2; Guirdil, pitfall traps, May-August 2000, 3 (DB det RK).

Scydmaenidae

Stenichnus collaris (Müller & Kanza). Kinloch woods (NM401997) December 2000, one from deciduous leaf litter/topsoil (K. Sayer det. RCW).

Staphylinidae

Megarthus depressus (Paykull). Kilmory Bay east (NG3604) 27.8.00, 6 in horse dung; Harris Mausoleum (NM3395) 29.8.00, 5 in cattle dung (RCW).

M. sinuatoollis (Boisduval & Lacordaire). Kilmory Fank Tree Plot (NG 362008), 2 ♂♂ in *Suillus* and other fungi, 27.8.00 (RCW); Kinloch Castle woods (NM4099) 2 July-1 September 2000, pitfall traps behind the White House (DB det. RCW), also same locality, 4 (DB det. RK).

Proteimus brachypterus (Fabricius). Kilmory Fank Tree Plot (NG362008) 27.8.00, 14 in *Suillus* and other fungi; Kinloch Castle woodlands (NM4099), 6 31.8.00; one 1.9.00 in rotten fungus near Turbine House and common in fungi behind the White House (RCW).

Olophrum fuscum (Gravenhorst). Coire Dubh (NM3998) 28.8.00, 2 sieving flood refuse; Kinloch Castle woodlands 31.8.00 sieving compost heap; Allt Mor na h-Uamha (NM404983) 1.9.00, sieving *Molinia* litter washed onto path; Bagh na h-Uamha (NM420971) 1.9.00, 2 sieving *Molinia* litter in sink hole above beach (RCW); Guirdil (NG319008), pitfall traps May-August, one (DB det. RK).

**O. piceum* (Gyllenhal). Guirdil (NG319008), pitfall traps, May-August, one (DB det. RK).

Arpedium brachypteryum (Gyllenhal). Hallival (NM392967), pitfall traps, 27 July-28 August 2000, 2 (DB det RCW); also one (DB det. RK).

Lesteva heeri Fauvel. Allt Mor na h-Uamha (NM404983) and (NM 405979), 3 sieving *Molinia* litter washed onto path; Bagh na h-Uamha (NM420971), 4 sieving *Molinia* litter in sink hole above beach, 1.9.00; Kinloch Castle woodlands (NM4099) 1.9.00, sieving litter under rotten fungi near Turbine House (RCW); Guirdil Tree Plot, pitfall traps, May-August 2000, one (DB det. RCW).

Geodromicus longipes (Mannerheim). Hallival (NM392967), pitfall traps, 27 July-28 August 2000, 2 (DB det RCW) and one, same locality, also in pitfall (DB det. RK).

G. nigrita (Müller). Hallival (NM3996) 27 July-28 August, 3 in pitfall traps (DB det. RK).

**Omalium excavatum* Stephens. Guirdil Glen Tree Plot, pitfall traps, May-August (NG319008), one ♀ (DB det. RCW).

O. laeviusculum Gyllenhal. Kinloch Castle woodlands (NM4099) 27.8.00, one in seaweed on shore; Kilmory Bay (NG3603) 27.8.00, 17 in seaweed; Harris east of boulder beach (NM3495) 29.8.00, 18 in seaweed; Dibidil

(NM3992) 30.8.00, 2 in seaweed on boulder beach; Bagh na h-Uamha (NM420971), 1.9.00, 10 in seaweed at top of gully; Port na Caranean (NG424988), 5 in seaweed (RCW); also same locality 30.8.00 in seaweed (RK).

O. rivulare (Paykull). Guirdil Glen Tree Plot pitfall traps (NG319008) May-September 2000, one ♂; Kinloch Castle woodlands (NM4099), pitfall traps behind the White House, one (DB det. RCW) and 3 (DB det. RK); Kilmory Fank (NG3603) 2 July-11 August 2000, 2 in pitfall traps (DB det. RK).

Xylodromus concinnus (Marsham). Kinloch Farm barns (NM4099) 31.8.00, 19 sieving hay (RCW).

**Carpelimus bilineatus* Stephens. Dibidil (NM3992) 30.8.00, one ♂ in grassy flood refuse washed onto top of beach (RCW).

Anotylus maritimus Thomson. Kilmory Bay (NG3603) 27.8.00, 10 in seaweed, one under driftwood on beach (RCW).

Oxytelus laqueatus (Marsham). Kilmory Bay east (NG3604) 27.8.00, 21 in horse dung; Hallival shearwater greens (NM3997) 28.8.00, 2 in deer dung; Coire Dubh (NM3998) 28.8.00, in deer dung on path; Harris Mausoleum (NM3395) 29.8.00, 7 in cattle dung; Dibidil (NM3992) 30.8.00, 3 in deer dung on lawn above beach (RCW); Barkeval summit (NM3797) 30.8.00 (RK).

Stenus brunripes Stephens. Hallival shearwater greens (NM3997) 28.8.00, one ♂ sieving moss; Dibidil (NM3992) 30.8.00, 1 ♂ in dry flood refuse in stream valley above beach (RCW); Guirdil (NG319008), pitfall traps, May-August 2000, one (DB det. RK).

S. clavicornis (Scopoli). Hallival shearwater greens (NM3997) 28.8.00, one ♂ sieving moss (RCW).

S. fulvicornis Stephens. Hallival shearwater greens (NM3997) 28.8.00, one ♀ sieving moss (RCW).

S. impressus Germar. Kilmory Fank Tree Plot (NG362008) 27.8.00, one ♂ in *Suillus*. Kinloch Castle woodlands (NM4099) 27.8.00, one ♀ sweeping path in woodland; Coire Dubh (NM3998) 28.8.00, sieving flood refuse; Dibidil (NM3992) 30.8.00, sieving moss under *Suillus* by track to pier; Bagh na h-Uamha (NM420971) 1.9.00, one ♂ sweeping above beach; Port na Caranean (NG424988) 1.9.00, one ♀ sweeping *Armeria* etc (RCW); Kinloch Castle woodlands (NM4099) 27 July-1 September 2000, pitfall traps behind the White House (DB det. RCW); Guirdil (NG319008) May-August 2000, pitfall traps, one (DB det. RK).

S. nitidiusculus Stephens. Coire Dubh (NM3998) 28.8.00, one ♂ in flood litter (RCW).

Lathrobium brunripes (Fabricius). Dibidil (NM3992) 30.8.00, one ♀ sieving moss in stream trickle; Kinloch Castle woodlands (NM4099) 1.9.00, sieving litter under rotten fungi near Turbine House (RCW).

L. fulvipenne (Gravenhorst). Bagh na h-Uamha (NM420971) 1.9.00, one ♂ sieving *Molinia* litter in sink hole above beach (RCW).

L. terminatum Gravenhorst. Allt Mor na h-Uamha (NM404983) and (NM405979) 1.9.00, one ♂ sieving *Molinia* litter wash onto path (RCW).

Othius angustus Stephens. Hallival shearwater greens (NM3996) 28.8.00, 2 sieving moss (RCW).

O. punctulatus (Goetze). Kinloch Castle woodlands (NM4099) 1.9.00, 3 sieving litter under rotten fungi near Turbine House (RCW); Guirdil Glen May-1 September, pitfall traps, 3 adults and one larva (DB det. RCW).

Xantholinus linearis (Olivier). Kilmory Cottage (NG3503) 27.8.00, under stone; Kilmory Bay (NG3603) 27.8.00, under driftwood on beach (RCW); Harris (NM3495) 29.8.00 (RK).

**X. longiventris* Heer. Harris (NM3495) 29.8.00 (RK).

Philonthus spp. Kinloch Castle woodlands (NM4099), 8 indet. larvae sieving moss (RCW); Guirdil Glen (NG319008), pitfall traps, May-1 September, 2 larvae (DB det. RCW).

P. cognatus Stephens. Kinloch Castle woodlands (NM4099) 31.8.00, one ♂ sieving compost heap (RCW).

P. fimetarius (Gravenhorst). Kilmory Fank Tree Plot (NG362008) 27.8.00, one ♂ in *Suillus*; Kinloch Castle woodlands (NM4099) 31.8.00, one ♀ sieving compost heap; Kinloch Castle woodlands (NM4099) 31.8.00 and 1.9.00, in rotten fungi and sieving litter under fungi near Turbine House (RCW); Kinloch behind the White House (NM4099), pitfall traps, 2 July-August, 2 (DB det. RK).

P. laminatus (Creutzer). Guirdil Glen (NG319008) May-1 September 2000, one ♀ in pitfall traps (DB det. RCW); Harris (NM3495) 29.8.00 (RK).

**P. nigrita* (Gravenhorst). Allt Mor na h-Uamha (NM405979) 1.9.00, one ♀ sieving *Molinia* litter washed onto path (RCW).

P. politus (Linnaeus). Dibidil (NM3992) 30.8.00, one ♀ in rotten seaweed (RCW).

P. sordidus (Gravenhorst). Kinloch Castle woodlands (NM4099) 27.8.00, grass mowings behind Castle (RCW).

P. splendens (Fabricius). Kinloch Castle woodlands (NM4099) 27.8.00, grass mowings behind Castle (RCW).

P. succicola Thomson. Kinloch Castle woodlands (NM4099) 27.8.00, 2 ♀♀ in seaweed on shore; Kilmory Cottage (NG3503) 27.8.00, one ♀ sweeping turf; Kilmory Fank Tree Plot (NG 362008) 27.8.00, one in *Suillus* (RCW).

P. tenuicornis Mulsant et Rey. Kinloch Castle woodlands (NM4099) 31.8.00, one ♂ sieving compost heap (RCW); Guirdil Glen Tree Plot (NG319008) May-1 September, 2 ♂♂, 4 ♀♀ in pitfall traps (DB det. RCW).

P. varians (Paykull). Kilmory Bay (NG3603) 27.8.00, 3 ♂♂, one ♀ in horse dung; Kilmory Bay east (NG3604) 27.8.00, one ♂, 5 ♀♀ in horse dung; Harris Mausoleum (NM3395) 29.8.00, in cattle dung (RCW).

P. varius (Gyllenhal). Kilmory Bay (NG3603) 27.8.00, one ♂, 3 ♀♀ in horse dung; Kilmory (NG3604) 27.8.0.0, one ♀ in horse dung; Harris Tree Plot (NM337962) 29.8.00, under logs by gate (RCW); Harris (NM3495) 29.8.00 (RK).

Gabrius pennatus Sharp. Kilmory Bay (NG3603) 27.8.00, one ♂ in seaweed (RCW).

G. trossulus (von Nord). Dibidil (NM3992) 30.8.00, one ♂ sieving moss below bothy (RCW).

Cafius xantholoma (Gravenhorst). Kilmory Bay (NG3603) 27.8.00, 14 in seaweed; Harris east of boulder beach (NM3495) 29.8.00, 3 adults, one larva, in seaweed on boulder beach (RCW).

Staphylinus aeneocephalus De Geer. Dibidil (NM3992) 30.8.00, under stone beside bothy (RCW) and 28.8.00 (RK); Hallival (NM3996) 28.8.00 (RK); Guirdil (NG319008) pitfall traps, May–August, one (DB det. RK).

S. erythropterus Linnaeus. Guirdil (NG319008), pitfall traps, May–August, one (DB det. RK).

Creophilus maxillosus (Linnaeus). Kilmory Bay (NG3603) 27.8.00, in seaweed; Kinloch Castle woodlands (NM4099) 31.8.00, in light trap in rose garden (RCW); Kilmory Dunes (NG3604) 27.8.00; Kinloch, field in front of Castle (NM4099) 30.8.00 (RK).

Quedius boopoides Munster. Hallival shearwater greens (NM3997) 28.8.00, 3 ♀♀ sieving moss (RCW); Guirdil (NG319008), pitfall traps, May–August, one ♂ (DB det. RK).

Q. boops (Gravenhorst). Barkeval summit (NM3797) 30.8.00 (RK).

Q. curtippennis Bernhauer. Kinloch Castle woodlands (NM4099) 1.9.00, 8 sieving litter under rotten fungi near Turbine House (RCW); Guirdil Glen (NG319008), pitfall traps, May–August 2000, one ♂, one ♀; Harris Tree Plot (NM337962), one ♂ in pitfall traps (DB det. RCW); Behind the White House at Kinloch (NM4099) 2 July–11 August 2000, pitfall traps, one; Guirdil (NG319008) May–August, pitfall traps, 7 (DB det. RK).

Q. nigriceps Kraatz. Dibidil (NM3992) 30.8.00, 11 in grassy flood refuse washed onto beach (RCW).

Lordithon thoracicus (Fabricius). Kilmory Fank Tree Plot (NG362008) 27.8.00, 24 in *Suillus* and other fungi; Kinloch castle woodlands (NM4099), common in *Suillus* beside path near Turbine House; 31.8.00 9 in fungi behind the White House; 1.9.00, 4 sieving litter under rotten fungi near Turbine House (RCW); Kilmory Fank (NG3603), pitfall traps, 15 (DB det. RK); Harris (NM3495) 29.8.00 (RK); Kilmory Fank (NG3603) July–August, 5 (DB det. RK).

**Tachyporus dispar* (Paykull). Kilmory Cottage (NG3503) 27.8.00, 2 ♀♀ sweeping turf; Harris Tree Plot (NM337962) 29.8.00, one ♂, one ♀, sieving moss on *Lasius flavus* mound; Dibidil (NM3992) 30.8.00, under stone beside bothy (RCW).

T. nitidulus (Fabricius). Hallival (NM392967) 27 July–28 August 2000, pitfall traps, one ♀ (DB det. RCW).

Tachinus elongatus Gyllenhal. Guirdil (NG319008), pitfall traps, May–August, one (DB det. RK).

T. laticollis Gravenhorst. Kinloch Castle woodlands (NM4099), 4 sieving compost heaps, 31.8.00 and 20 sieving litter under rotten fungi near Turbine House (RCW); Kinloch (NM4099), behind the White House, 13 in pitfall traps; Kilmory Fank (NG3603) 2 July–11 August, 6 in pitfall traps (DB det. RK).

T. marginellus (Fabricius). Kilmory Fank Tree Plot (NG362008) 27.8.00, 5 in *Suillus* and other fungi; Kinloch Castle woodlands (NM4099) 28.8.00, 3 in *Suillus* beside path near Turbine House; Dibidil (NM3992) 30.8.00, in deer dung on lawn above beach; Kinloch Castle woodlands (NM4099), on old bone near the White House, 1.9.00 and 4 sieving litter under rotten fungi near Turbine House (RCW); Guirdil Glen (NG319008) May–August, 2 in pitfall traps; Harris Tree Plot ,27 July–31 August, 2 in pitfall traps; Kinloch, behind the White House, 27 July–1 September, 2 in pitfall traps (DB det. RCW); Kilmory Fank Tree Plot (NG3603), pitfall traps, 2 July–11 August, 4 (DB det. RK); Hallival (NM3996) 28.8.00 (RK); Guirdil (NG319008), pitfall traps, May–August 2000, 2 (DB det. RK). Kinloch (NM401997) December 2000, one from deciduous leaf litter and topsoil (K. Sayer det. RCW).

T. pallipes Gravenhorst. Kilmory Fank Tree Plot (NG362008) 27.8.00, one ♂, one ♀ in *Suillus* and other fungi (RCW); Kilmory Fank (NG3603), pitfall traps, 2 July–11 August, 2 (DB det. RK).

T. proximus Kraatz. Kinloch Castle woodlands (NM4099) 31.8.00, in rotten fungi near Turbine House (RCW).

T. signatus Gravenhorst. Kinloch (NM4099) 27.8.00, 4 in seaweed on shore 31.8.00, 2 sieving compost heap; 31.8.00, 47 sieving litter under rotten fungi near generator house and 3 larvae sieving moss; Port na Caranean (NM424988) 1.9.00, in seaweed (RCW); Guirdil Glen (NG319008), pitfall traps, May–August, 14 adults and 3 larvae; Harris Tree Plot (NM337962) 27 July–31 August, 4 adults and one larva in pitfall traps; Kinloch Castle woodlands (NM4099) 27 July–1 September, 9 adults and 3 larvae in pitfall traps behind the White House (DB det. RCW); Kinloch, behind the White House (NM4099), pitfall traps, 2 July 2000, 171 and 2 August, 45 (DB det. RK); Kilmory Fank (NG3603), pitfall traps, 16 and 30 August, 3; Guirdil (NG319008) May–August, pitfall traps, 49 (DB det. RK); Kinloch (NM401997) December, from deciduous leaf litter and topsoil, one (K. Sayer det. RCW).

**Gymnusa brevicollis* (Matthews). Allt Mor na h-Uamha (NM405979) 1.9.00, one ♂, 2 ♀♀, sieving *Molinia* litter washed onto path (RCW).

Myllaena brevicornis (Paykull). Coire Dubh (NM3998) 28.8.00, one ♀ sieving flood refuse; Dibidil (NM3992) 30.8.0, 3 ♂♂ sieving moss below bothy; Bagh na Uamha (NM420971) 1.9.00, one ♂, 5 ♀♀, sieving *Molinia* litter in sink hole above beach (RCW).

- **M. kraatzi* Sharp. Allt Mor na h-Uamha (NM404983) and (NM405979) 1.9.00, sieving *Molinia* litter washed onto path; Bagh na h-Uamha (NM420971), one sieving *Molinia* litter in sink hole above beach (RCW).
- **M. minuta* (Gravenhorst). Dibidil (NM3992) 30.8.00, one ♂, one ♀, sieving moss in stream trickle (RCW).
- **Gyrophana affinis* Mannerheim. Kinloch Castle woodlands (NM4099), one ♂ sieving litter under rotten fungi near Turbine House, 1.9.00 (RCW).
- **G. poweri* Crotch. Kinloch Castle woodlands (NM4099), one ♂, 3 ♀♀ in *Suillus* beside path near Turbine House (RCW).
- Phytosula balticus* Kraatz. Kilmory Bay (NG3604), 3 in seaweed, one under driftwood on beach, 27.8.00 (RCW).
- Leptusa fumida* Kraatz. Kinloch Castle woodlands (NM4099), one ♂, 4 ♀♀, in *Piptoporus betulinus* on dead standing birch, one under bark of cut pine stump, 31.8.00 (RCW).
- L. ruficollis* (Erichson). Kinloch Castle woodlands (NM4099), in *Piptoporus betulinus* on dead standing birch, 31.8.00 (RCW).
- Autalia impressa* Olivier. Kilmory Fank Tree Plot, common in *Suillus* and other fungi, 27.8.00; Kinloch Castle woodlands (NM4099), 3 in *Suillus* and other rotten fungi beside path near Turbine House, 28.8.00 and 31.8.00; 14 in fungi behind the White House, 1.9.00 (RCW). Kilmory Fank Tree Plot (NG3603) 2 July-11 August 2000, 3; and 30.8.00, one (DB det. RK).
- A. rivularis* (Gravenhorst). Harris Mausoleum (NM3395) 29.8.00, 3 in cattle dung (RCW).
- **Falagria thoracica* Stephens. Harris Tree Plot (NM337962) 29.8.00, one sieving moss on *Lasius flavus* mound (RCW).
- **Aloconota* (s. str.) *gregaria* (Erichson). Hallival, pitfall traps (NM392967) 27.7.00-28.8.00, one ♂ in pitfall trap (DB det. RCW).
- Amischa bifoveolata* (Mannerheim) (- *A. cavifrons* (Sharp)). Harris Mausoleum (NM3395) 29.8.00, one ♀ under stone on grassy lawn above beach; Dibidil (NM3992) 30.8.00, one ♀ under stone beside bothy; Hallival pitfall traps (NM392967) 27 July-28 August 2000, one ♂, one ♀, in pitfall trap (RCW).
- Nehemitropia sordida* (Marsham). Kinloch (NM4099) 31.8.00, one ♂ sieving compost heap (RCW).
- Geostiba circellaris* (Gravenhorst). Kinloch Castle woodlands (NM4099) 1.9.00, sieving litter under rotten fungi near Turbine House (RCW).
- **Atheta (Phillygra) volans* (Scriba). Kinloch Castle woodlands (NM401997), 17 from deciduous leaf litter and topsoil, December 2000 (K.Sayer det. RCW).
- A. (Anopleta) corvina* (Thomson). Kinloch Castle woodlands (NM4099) 31.8.00, one ♂, in fungi behind the White House (RCW).
- A. (Microdota) amicala* (Stephens) Kilmory Fank Tree Plot (NG362008) 27.8.00, one ♂, in *Suillus*; Kinloch Castle woodlands (NM4099) 28.8.00, one ♂, one ♀, in *Suillus* beside path near Turbine House; Hallival (NM392967) 1.9.00, one ♀, under stone (DB det. RCW).
- A. (Lohse Grp. II) cadaverina* (Brisout). Kinloch Fank Tree Plot (NG362008) 1.8.00, 4 ♂♂, 3 ♀♀, in *Sulius* and other fungi (RCW).
- A. (Lohse Grp. II) gagatina* (Baudi) Kinloch Castle woodlands (NM4099) 28.8.00, 3 ♂♂, one ♀, in *Sulius* beside path near Turbine House (RCW).
- A. (Lohse Grp. II) picipes* (Thomson). Kinloch Castle woodlands, 31.8.00, one ♀, in *Piptoporus betulinus* on dead standing birch (RCW).
- A. (Lohse Grp. II) tibialis* (Heer). Hallival below summit (NM3996) 28.8.00, one ♀, under stone; Hallival pitfall traps (NM392967) 27 July-28 August 2000, common (RCW).
- A. (Mocysta) fungi* (Gravenhorst). Kinloch Castle woodlands (NM4099) 27.8.00, sweeping road verge; Kinloch Farm barn (NM4099) 31.8.00, sieving hay; Guirdil Glen Tree Plot (NG319008) (RCW). Pitfall traps, May-August 2000, one in pitfall (DB det. RCW).
- A. (s. str.) aquatica* (Thomson). Kilmory Fank Tree Plot (NG362008) 27.8.00, 2 ♂♂, 4 ♀♀, in *Suillus* and other fungi; Dibidil (NM3992) 30.8.00, 5 ♀♀, in rotten seaweed; Bagh na h-Uamha (NM420971) 1.9.00, 2 ♂♂, one ♀, in rotten seaweed at top of gully, one ♀, sweeping birch above gorge to beach (RCW); Guirdil Glen Tree Plot (NG319008), pitfall traps, May-August 2000, one ♀, in pitfall; Kinloch Castle woodlands (NM4099) 27 July-1 September, pitfall traps behind the White House, 2 ♂♂, 4 ♀♀ (DB det. RCW).
- **A. (s. str.) brunneipennis* (Thomson). Harris Tree Plot (NM337962), pitfall traps, 27 July-31 August, one ♀, in pitfall (DB det. RCW).
- A. (s. str.) castanoptera* (Mannerheim). Kilmory Fank Tree Plot (NG362008) 27.8.00, one ♂, one ♀, in *Suillus* and other fungi; Kinloch Castle woodlands (NM4099) 28.8.00, 2 ♂♂, one ♀, in *Suillus* beside path near Turbine House; Kinloch Castle woodlands (NM4099), one ♂, one ♀, in fungi behind the White House (RCW).
- A. (s. str.) pertyi* (Heer). Kinloch Castle woodlands (NM4009) 28.8.00, one ♂ in *Suillus* beside path near generator hut, also 2 ♂♂, one ♀, in rotten fungi (RCW); Harris Tree Plot (NM337962), pitfall traps, 1 ♀, 29.8.00; Kinloch Castle woodlands (NM4099), pitfall traps behind the White House; 27 July-1 September, 1 ♂ (DB det. RCW).

- A. (Lohse Grp. I) crassicornis* (Fabricius). Kilmory Fank Tree Plot (NG362008) 27.8.00, 1 ♀ in *Sullius*; Kinloch Castle woodlands (NM4099), 1 ♂ in *Sullius* beside path near Turbine House, 31.8.00; 1 ♂, 5 ♀♀, in fungi behind the White House and 1 ♂, 1 ♀, in *Piptoporus betulinus* on dead standing birch (RCW).
- **A. (Lohse Grp. I) coriaria* (Kraatz). Kinloch Farm barns, 31.8.00, one ♂, 1 ♀, sieving hay (RCW).
- A. (Lohse Grp. I) laticollis* (Stephens). Kinloch Castle woodlands (NM4099), one sieving compost heap (RCW).
- A. (Dimetrotia) atramentaria* (Gyllenhal). Kilmory Bay (NG3603) 27.8.00, one ♂ in dead gull on beach, 15 in deer dung; Kilmory Bay (NG3603) and Kilmory Bay east (NG3604) 27.8.00, abundant in horse dung; Hallival shearwater greens (NM3997) 28.8.00, common in deer dung; Coire Dubh (NM3998) 28.8.00, common in deer dung on path; Harris Mausoleum (NM3395) 29.8.00, common in cattle dung; Harris east of boulder beach (NM3495) 29.8.00, 4 ♂♂, 3 ♀♀, in deer dung; Dibidil (NM3992) 30.8.00, 3 ♀♀ in deer dung on lawn above beach (RCW).
- A. (Dimetrotia) cinnamoptera* (Thomson). Kilmory Fank Tree Plot (NG362008) 27.8.00, one ♂ in *Sullius*; Hallival shearwater greens (NM3997) 28.8.00, 2 ♂♂ in deer dung; Coire Dubh (NM3998) 28.8.00, one ♂ in deer dung on path; Dibidil (NM3992) 30.8.00, one ♂, 1 ♀, in deer dung on lawn above beach; Bagh na h-Uamha (NM420971) 1.9.00, one ♂ in rotten seaweed at top of gully (RCW).
- A. (Dimetrotia) ischnocera* Thomson. Kilmory Bay east (NG3604) 27.8.00, 4 ♂♂, 7 ♀♀, in horse dung; Harris east of boulder beach (NM3495) 29.8.00, one ♀ in deer dung (RCW).
- **A. (Dimetrotia) nigripes* (Thomson). Harris Mausoleum (NM3395) 29.8.00, one ♂ in cattle dung (RCW).
- **A. (Dimetrotia) puncticollis* Benick. Kilmory Bay east (NG3604) 27.8.00, one ♂, 1 ♀, in horse dung (RCW).
- A. (Dimetrotia) setigera* (Sharp). Kilmory Bay (NG3603) 27.8.00, one ♂, 1 ♀, in horse dung; Kilmory Bay east (NG3604) 27.8.00, 1 ♀ in horse dung; Hallival shearwater greens (NM3997) 28.8.00, one ♀ in deer dung; Coire Dubh (NM3998) 28.8.00, 3 ♀♀ in deer dung on path; Harris Mausoleum (NM3395) 29.8.00, 2 ♂♂, 2 ♀♀, in cattle dung (RCW).
- A. (Chaetida) longicornis* (Gravenhorst). Kilmory Bay (NG3603) and Kilmory Bay east (NG3604) 27.8.00, common in horse dung; Hallival shearwater greens (NM3997), one ♀ in deer dung; Harris Mausoleum (NM3395) 29.8.00, 2 ♂♂, 2 ♀♀, in cattle dung (RCW).
- A. (Thinobaena) vestita* (Gravenhorst). Kilmory Bay (NG3603) 27.8.00, 3 ♂♂, 3 ♀♀, in seaweed; Dibidil (NM3992) 30.8.00, 3 ♂♂ in rotting seaweed; Bagh na h-Uamha (NM420971) 1.9.00, 3 ♀♀ in rotten seaweed at top of gully; Port na Caranean (NM424988), 1 ♀ in seaweed (RCW).
- **Halobrecta algae* (Hardy). Kilmory Bay (NG3603) 27.8.00, one ♂ in seaweed (RCW).
- Drusilla canaliculata* (Fabricius). Harris Tree Plot (NM337962) 29.8.00, sieving moss on *Lassius flavus* mound (RCW).
- Ocalea picata* (Stephens) Guirdil Glen Tree Plot (NG319008), pitfall traps, May-1 September 2000, one ♀ in pitfall; Harris Tree Plot (NM337962), pitfall traps 27 July-31 August, 2 ♂♂, 2 ♀♀ (DB det. RCW); Kinloch (NM401997), from deciduous leaf litter and topsoil, December (K. Sayer det. RCW).
- Oxypoda alternans* (Gravenhorst). Kilmory Fank Tree Plot (NG362008) 27.8.00, 11 in *Sullius* and other fungi; Kinloch Castle woodlands (NM4099) 28.8.00, 3 in *Sullius* beside path near Turbine House, 31.8.00, 6 in fungi behind the White House, 1.9.00, 4 sieving litter under rotten fungi near Turbine House (RCW).
- O. elongatula* Aubé. Harris tree Plot (NM337962), pitfall traps, 27 July-31 August, 1 ♀ (DB det. RCW).
- O. tirolensis* Gredler. Hallival shearwater greens (NM3997) 28.8.00, one ♂ sieving moss; Hallival (NM392967) 27 July-28 August, 4 ♂♂, 1 ♀ (DB det. RCW).
- **O. umbrata* (Gyllenhal). Kinloch Castle woodlands (NM4099) 1.9.00, one ♀ sieving litter under rotten fungi near Turbine House (RCW).
- Aleochara brevipennis* Gravenhorst. Kilmory Cottage, 27.8.00, one ♂ in piece of deer skin on grass (RCW).
- A. lanuginosa* Gravenhorst. Kilmory Bay (NG3603) 27.8.00, one ♂, 1 ♀, in horse dung and one ♂ in Kilmory Bay east (NG3604) also in horse dung; Harris Mausoleum (NM3395) 29.8.00, one ♂ in cattle dung (RCW).
- Emplenota obscurella* (Gravenhorst) (= *Aleochara algarum* Fauvel). Kilmory Bay (NG3603), 2 ♂♂, 1 ♀, in seaweed (RCW).
- E. grisea* Kraatz (= *Aleochara grisea* (Kraatz)). Kilmory Bay (NB3603) 27.8.00, 2 ♂♂ in seaweed, one ♀ under driftwood on beach (RCW).
- E. punctatella* Motschulsky. (= *Aleochara obscurella* (Gravenhorst)). Kilmory Bay (NG3603) 37.8.00, common in seaweed, one ♂, 1 ♀, in dead gull on beach; Harris east of boulder beach (NM3495) 29.8.00, 2 ♂♂, 3 ♀♀, in rotting seaweed on boulder beach (RCW).
- Pselaphidae**
- Bryaxix puncticollis* (Denny). Harris Tree Plot (NM337962), one ♀ sieving moss on *Lassius flavus* mound, 29.8.00 (RCW).
- Geotrupidae**
- Geotrupes stercorarius* (Linnaeus). Kilmory Bay east (NG3604) 27.8.00, in horse dung (RCW).

Scarabaeidae

Aegialia arenaria (Fabricius). Kilmory Bay (NG3603) 27.8.00, 3 under dead gull, one under plastic bottle on beach (RCW).

Aphodius ater (Degeer). Kilmory Cottage (NG3503) 27.8.00, one in deer dung, one in horse dung (RCW).

A. contaminatus (Herbst). Kilmory Bay east (NG3604) 27.8.00, 5 in horse dung; Harris Mausoleum (NM3395) 29.8.00, 8 in cattle dung; Harris east of boulder beach (NM3495) 29.8.00, 3 in deer dung behind storm beach; Dibidil (NM3992) 30.8.00, 3 in deer dung on lawn above beach (RCW). Harris (NM3495) 29.8.00, Barkeval summit (NM3797) 30.8.00 (RK).

A. depressus (Kugelnann). Kilmory Bay east (NG3604) 27.8.00, in horse dung; Hallival shearwater greens (NM3997), one in deer dung (RCW); Hallival (NM3996) August 2000, in pitfall traps, 3 (DB det RK); Hallival (NM3996) 28.8.00 (RK).

A. foetens (Fabricius). Kilmory Bay (NG3603) 27.8.00, 2 in horse dung (RCW).

A. lapponum Gyllenhal. Harris Mausoleum (NM3395) 29.8.00, one in cattle dung; Dibidil (NM3992) 30.8.00, 3 in deer dung on lawn above beach (RCW); Hallival (NM3996) 28.8.00; Barkeval summit (NM3797) 30.8.00 (RK).

A. rufipes (Linnaeus). Kilmory Bay east (NG3604) 27.8.00, in horse dung; Harris Mausoleum (NM3395) 29.8.00, in cattle dung (RCW). North side of Loch Scresort (NM410999) 30.8.00 (RK).

A. rufus (Moll). Kilmory Bay (NG3603) 27.8.00, 4 in horse dung; Hallival shearwater greens (NM3997) 28.8.00, 4 in deer dung (RCW).

Serica brunnea (Linnaeus). Harris east of boulder beach (NM3495) 29.8.00, one dead in plastic box in stream (RCW); Guirdil (NG319008) May-August, pitfall traps, 1 (DB det. RK).

Dascillididae

Dascillus cervinus (Linnaeus). Harris east of boulder beach (NM3495) 29.8.00, one dead under stone on grassy lawn behind storm beach; Hallival (NM392967), pitfall traps 27 July-28 August, one and one dead under juniper (DB det. RCW); Harris (NM3495) 29.8.00 (RK).

Scirtidae

Cyphon palustris Thomson. Hallival (NM392967), one ♂ on wing, 28.8.00 (RCW).

C. padi (Linnaeus). Kilmory Dunes (NG3604) 27.8.00; Harris (NM3495) 29.8.00; Loch Gainmhich (NM3798) 30.8.00 (RK).

Byrrhidae

Simplocaria semistriata (Fabricius). Harris Tree Plot (NM337962) 27 July-31 August, pitfall traps, one ♂ (DB det RCW).

**Byrrhus fasciatus* (Forster). Hallival (NM392967) 27 July-28 August, 6 in pitfall traps (DB det. RK).

B. pilula (Linnaeus). Hallival (NM392967) 27 July-28 August, one ♀ in pitfall trap (DB det RCW).

Dryopidae

Dryops luridus (Erichson). Harris east of boulder beach (NM3495) 29.8.00, one ♀, one larva under stones on grassy lawn above beach, one ♂ under driftwood in stream (RCW).

Elateridae

Hypnoidus riparius (Fabricius). Kinloch Castle woodlands (NM4099) 1.9.00, sieving litter under rotten fungi near Turbine House (RCW); Hallival (NM392967) 27 July-28 August, pitfall traps, 20+ (DB det. RCW); Kinloch, behind the White House (NM402992), 21 pitfall traps, 2 July-1 September and 3, 2.8.00; Hallival (NM392967); 27 July-28 August, 11 in pitfall traps; Guirdil (NG319008) May-August, 47 in pitfall traps (DB det. RK); Barkeval summit (NM3797) 30.8.00 (RK).

Zoroachros minimus (Boisduval & Lacordaire). Hallival (NM337962), pitfall traps, 27 July-31 August, very common in pitfall traps and 4 under juniper (DB det. RCW); and 47 also in pitfalls (DB det. RK); Hallival (NM3996) 28.8.00; Harris (NM3495) 29.8.00; Barkeval summit (NM3797) 30.8.00 (RK).

Ctenicera cuprea (Fabricius). Hallival (NM337962), pitfall traps, 27 July-28 August, 7 (RCW).

Aplotarsus incanus (Gyllenhal) (= *Selatossomus incanus*). Kinloch Castle woodlands (NM4099), one ♂ sieving litter under rotten fungi near Turbine House (RCW).

Cantharidae

Rhagonycha elongata (Fallén). Kinloch Castle woodlands (NM4099) 1.9.00, ♂ and ♀ sieving litter under rotten fungi near Turbine House (RCW).

Anobiidae

Anobium punctatum (De Geer). Kilmory Cottage (NG3503), 27.8.00, borings in planks beside hut (RCW); Kinloch (NM4099) 30.8.00, in woodwork in Kinloch Castle (RK).

Nitidulidae

Eparaea aestiva (Linnaeus). Kinloch Castle woodlands (NM4099) 27.8.00, one ♂ sweeping road verge (RCW); Kilmory Dunes (NG3604) 27.8.00 (RK).

**E. melanocephala* (Marsham). Kinloch (NM402992), pitfall traps behind the White House, 27 July-1 September, one ♂ (DB det. RCW).

Rhizophagidae

Rhizophagus dispar (Paykull). Kinloch Castle woodlands (NM4099) 31.8.00, one in *Piptoporus betulinus* on dead standing birch, and one under bark of cut pine stump (RCW).

Cryptophagidae

Cryptophagus dentatus group. Females of this group of closely-related species cannot be separated. Kinloch Farm barns (NM4099) 31.8.00, 4 ♀♀ sieving hay (RCW).

C. laticollis Lucas. Kinloch Farm barns (NM4099) 31.8.00, 2 ♂♂, one ♀ sieving hay (RCW).

C. saginatus Sturm. Kinloch Farm barns (NM4099) 31.8.00, 4 ♀♀ sieving hay (RCW).

Micrambe vini (Panzer). Kinloch Castle woodlands (NM4099) 30.8.00, beating gorse (RCW).

Atomaria (Anchicera) apicalis Erichson. Harris, east of boulder beach (NM3495) 29.8.00, one ♂ in rotting seaweed on boulder beach; Kinloch Farm barns (NM4099) 31.8.00, sieving hay (RCW).

A. lewisi Reitt. Kinloch Farm barns (NM4099) 31.8.00, 5 sieving hay; Kinloch (NM4099) 31.8.00 sieving compost heap (RCW).

**A. nigripennis* (Kugelann). Kinloch Farm barns (NM4099) 31.8.00, one sieving hay (RCW). Previously recorded from Kinloch area by Colin Johnston (1993, Atlas of Atomariinae).

**A. rubella* Heer (= *A. berolinensis* Kraatz). Kinloch Castle grounds (NM4099) 27.8.00, one sweeping roadside verge in front of Castle (RCW).

Coccinellidae

Coccinella undecimpunctata Linnaeus. Kilmory Bay (NG3603) 27.8.00, 2 sweeping behind dunes, specimens with large merged spots (RCW).

Endomychidae

Mycetaea hirta (Marsham). Kinloch Farm barns (NM4099) 31.8.00, sieving hay (RCW).

Lathridiidae

**Cartodere constricta* (Gyllenhal). Kinloch Farm barns (NM4099) 31.8.00, 3 sieving hay (RCW).

Lathridius anthracinus Mannerheim. Kinloch Farm barns (NM4099) 31.8.00, very common sieving hay (RCW).

Corticaria elongata (Gyllenhal). Kinloch Farm barns (NM4099) 31.8.00, one ♂ sieving hay (RCW).

**Dienerella ruficollis* (Marsham). Kinloch Farm barns (NM4099) 31.8.00, one ♂, 6 ♀♀ sieving hay (RCW).

Cisidae

Cis nitidus (Fabricius). Kinloch Castle woodlands (NM4099) 27.8.00, 2, and 31.8.00, 13 in *Piptoporus betulinus* on dead standing birch (RCW).

Mycetophagidae

Typhaea stercorea (Linnaeus). Kinloch Farm barns (NM4099) 31.8.00, 34 sieving hay (RCW).

Anthicidae

**Anthicus floralis* (Linnaeus). Kinloch Farm barns (NM4099) 31.8.00, one ♂, one ♀ dead, sieving hay (RCW).

Chrysomelidae

Chrysolina staphylaea (Linnaeus). Kilmory Bay (NG3603) 27.8.00, on grazed turf behind dunes (RCW); Hallival (NM392967) 1.9.00, one under juniper (DB det. RCW); Hallival (NM3996) 28.8.00; Barkeval summit (NM3797) 30.8.00 (RK).

Phratora (= *Phyllodecta*) *vitellinae* (Linnaeus). Kilmory Dunes (NG3604) 27.8.00 (RK).

Galeruca tanacetii (Linnaeus). Coire nan Grund (NM4095) 28.8.00; Loch Fiachanis (NM3594) 29.8.00 (RK).

Lochmaea suturalis (Thomson). Coire Dubh (NM3998) 28.8.00, many sweeping heather; Harris Mausoleum (NM3395) 29.8.00, sweeping heather on slopes above Mausoleum; Dibidil (NM3992) 30.8.00, sweeping heather above beach; Bagh na h-Uamha, 1.9.00, sweeping above beach; Kilmory Cottage (NG3503) 27.8.00, sweeping turf (RCW); Kilmory Dunes (NG3604) 27.8.00; Harris (NM3495) 29.8.00; Loch Fiachanis (NM3594) 29.8.00 (RK).

**Phyllotreta undulata* Kutschera. Kinloch (NM4099) 27.8.00, one sweeping field beside Castle (RCW).

**Longitarsus holsaticus* (Linnaeus). Kinloch Farm barns (NM4099) 31.8.00, one sieving hay (RCW).

L. luridus (Scopoli). Kilmory Cottage (NG3503) 27.8.00, one ♂, one ♀ sweeping turf; Kilmory Bay (NG3603) 27.8.00, 6 sweeping behind dunes; Kinloch (NM4099) 27.8.00, 8 sweeping road verge; Harris Mausoleum (NM3395), 7 sweeping slopes above Mausoleum (RCW).

**L. pratensis* (Panzer). Kilmory Cottage (NG3503) 27.8.00, one ♂, one ♀ sweeping *Plantago*; Harris Mausoleum (NM3395) 29.8.00, one ♂, 4 ♀♀ sweeping slopes above Mausoleum (RCW).

Apionidae

**Apion frumentarium* (Paykull) (= *miniatum* Germar). Guirdil (NG319008), pitfall traps, May-August, one (DB det. RK).

Protapion onicicola Bach. Kinloch (NM4099) 27.8.00, 10 sweeping roadside verge in front of Castle (RCW).

Curculionidae

Otiorynchus arcticus (Fabricius). Hallival (NM3996) 28.8.00, below summit, 2 under stones (RCW); Hallival (NM392967) 27.7.00-28.8.00, 16 in pitfall traps; 1.9.00, 3 under juniper (DB det. RCW); Kilmory Dunes (NG3604)

27.8.00 (RK); Bealach an Oir (NM3895) 28.8.00 (DP); Hallival (NM3996) 28.8.00; Harris (NM3495) 29.8.00; Loch Fiachanis (NM3594) 29.8.00; Barkeval summit (NM3797) 30.8.00 (RK).

O. atroapterus (De Geer). Kilmory Bay (NG3603) 27.8.00, one drowned in plastic box in dunes; Kilmory Bay east (NG3604) 27.8.00, on dune slope (RCW).

O. ligneus (Olivier). Harris (NM3495) 29.8.00 (RK); Kinloch (NM4099) 29.8.00 (DP).

**O. nodosus* (Müller). Kilmory Fank (NG3603) 30.8.00, one in pitfall trap (DB det. RK).

O. singularis (Linnaeus). Kinloch (NM4099), in Castle courtyard; Kilmory Cottage (NG3503) 27.8.00, under stone; Harris Tree Plot (NM337962) 29.8.00, one in hooded crow's nest in oak; Kinloch Castle woodlands (NM4099), 2 sieving moss (RCW); Guirdil (NG319008) May-August, 4 in pitfall traps; Harris Tree Plot (NM337962), four in pitfall traps (DB det. RCW); Kinloch (NM4099), behind the White House, pitfall traps, 2 July, one, 2 August, one; Kilmory Fank Tree Plot (NG362008) 2 July-11 August 2000, 5 in pitfall traps (DB det. RK).

O. sulcatus (Fabricius). Kinloch (NM4099), sieving compost heap (RCW); Guirdil (NG319008), pitfall traps, May-August 2000; 1.9.00, one in pitfall trap; Kinloch (NM402992), pitfall traps behind the White House; one in pitfall (DB det. RCW).

Barypeithes araneiformis (Schrank). Kinloch Castle woodlands (NM4099) 1.9.00, 4 sieving litter under rotten fungi near Turbine House (RCW); Kinloch (NM402992), pitfall traps behind the White House, 27 July-1 September, one in pitfall (DB det. RCW); also July 2000, 2; 2 August 2000, 21 (DB det. RK).

Philopeton plagiatus (Schaller). Samhnan Insis (NG379043) 27.8.00 (RK).

Strophosoma melanogrammus (Forster). Kinloch Castle woodlands, 28.8.00, beating birch foliage (RCW).

Barynotus squamosus Germar. Hallival (NM392967) 27 July-28 August, one in pitfall trap (DB det. RCW).

Sitona lepidus Gyllenhal. Kinloch (NM4099) 27.8.00, sweeping *Lathyrus* in Met Station field; 31.8.00, sieving compost heap (RCW).

S. lineellus (Bonsdorff). Harris Mausoleum (NM3395) 29.8.00, 4 sweeping around Mausoleum (RCW); Harris (NM3495) 29.8.00 (RK).

Hypera nigristris (Fabricius). Harris Mausoleum (NM3395) 29.8.00, one teneral, sweeping around Mausoleum (RCW).

Anoplus plantaris (Naezen). Bagh na h-Uamha (NM420971), sweeping birch above gorge to beach (RCW).

Ceutorhynchus contractus (Marsham). Kinloch Farm barns (NM4099) 31.8.00, sieving hay (RCW).

Anthonomus brunneipennis (Curtis). Kinloch (NM4099) 27.8.00, one ♂, one ♀ on *Potentilla erecta*; Bagh na h-Uamha (NM420971) 1.9.00, 2 sweeping *P. erecta* behind boulder beach (RCW).

Rhynchaenus fagi (Linnaeus). Kinloch (NM4099). A few typical mines in *Fagus*, 30.8.00 (KB).

Scolytidae

Hylurgops palliatus (Gyllenhal). Kinloch Castle woodlands (NM4099) 31.8.00, 6 under bark of cut pine stump (RCW).

HYMENOPTERA

Little attention was paid to this order during the 2000 team survey but Keith Bland investigated gall wasps belonging to the Tenthredinidae and Cynipidae confirming two more old Heslop Harrison records *Xestophanes brevitarsis* (Thomson) (Harrison, 1948) and *Andricus ostreus* (Hartig) (Harrison, 1938). David Phillips, in addition to his work on Diptera, investigated the Fomicidae and Apidae and recorded the ant *Formica lemani* Bondroit which is new to the Rum checklist. David Horsfield and Roger and Rosy Key also contributed.

Tenthredinidae

Heterarthrus vagans (Fallén). South side, Loch Sresort (NM4099-4199), mines with disks on alder leaves, 31.8.00 (KB).

Euura weiffenbachi Ermolenko. Kilmory (NG3503), galls on *Salix repens* stem, 27.8.00; Dibidil track (NM4098) galls on *S. repens*, 28.8.00; Harris (NM3495) 29.8.00 (KB det. A. Liston).

Pontania bella (Zaddach) (= *P. pedunculi* (Hartig)). Kilmory Fank (NG3600), almost smooth galls on *Salix aurita*, emerged 1.5.01 and 12.5.01 (KB det. A. Liston).

P. herbaceae (Cameron) (= *P. crassipes* (Thomson)). Askival (NM3995), galls on *Salix herbacea*, 28.8.00, emerged 20.4.01. (KB); also Hallival (NM3996) (DH).

Pontania sp. Kinloch (NM4099) bean galls in *Salix cinerea* 28.8.00 (KB).

P. colluctanea (Foerster). South side, Loch Sresort (NM4098-4199) galls on *Salix repens* 31.8.00 (RK det. KB).

Cynipidae

Xestophanes brevitarsis (Thomson). Harris, galls on stem of *Potentilla erecta* also. Fionchra at 200 m alt August 2003 (GC det. KB); Kinloch (NM4099), stem galls on *Potentilla erecta* 30.8.00 (KB). (This confirms record by J. W. Heslop Harrison 1934 (Harrison, 1948).)

Diptolepis spinosissima (Giraud). Harris (NM3495) 29.8.00, rounded reddish galls on leaves of *Rosa pimpinellifoli* (KB).

Neuroterus quercusbaccarum Linnaeus. Harris Tree Plot (NM3396) early "hat galls" on underside of oak leaves 29.8.00, also Kilmory North Tree Plot (NG3603) 1.9.00 and Kinloch Glen (NG3900) 31.8.00 (KB).

Andricus curvator Hartig. Harris Tree Plot (NM3396) galls on leaf vein of oak distorting leaves, 29.8.00; also at Kilmory North Tree Plot (NG3603) 1.9.00 and Kinloch Glen (NG3900) 31.8.00 (KB).

A. ostreus (Hartig). Harris Tree Plot (NM3396) small galls on mid rib of oak leaf, 29.8.00; also at Kilmory North Tree Plot (NG3603) 1.9.00 (KB). (This confirms record by J. W. Heslop Harrison (Harrison 1948).)

A. kollari (Hartig). South side, Loch Scresort (NM4099-4199), marble galls on oak, 31.8.00 (KB).

A. fecundator (Hartig). South side, Loch Scresort (NM4099-4199) galls on oak, 31.8.00 (KB).

Periclistus spinosissimae Dettmer. Harris (NM3495) 29.8.00, inquillines in galls of *Diplolepis spinosissimae* - reared 30.5.01 (KB).

Formicidae

Myrmica scabrinodis Nylander. Harris raised beach (NM341954) swarming around parked Landrover, 29.8.00 (DP).

M. ruginodis Nylander. Harris raised beach (NM341954) nest in tussock mound 29.8.00; Kilmory, flushes near Cottage (NG358039) 27.8.00; Allt nam Ba (NG408943) 28.8.00; Coire Dubh (NG3999) 28.8.00 (DP).

Lasius flavus (Fabricius). Harris, track north of Cottage (NM337957-NM338960) nest mounds concentrated towards (NM338960) 29.8.00 (DP); Harris (NM3495) 29.8.00 (RK).

L. niger (Linnaeus). Harris, nests under stones on margin of track north of Cottage (NM337957-NM338960) 29.8.00; Kilmory, a late ♀ and nest (NG366044) 27.8.00 (DP).

**Formica lemni* (Bondroit). Allt nam Ba (NG408943), 28.8.00 (DP).

Apidae

Bombus lucorum (Linnaeus). Kilmory Dunes (NG3604) 27.8.00 (DP).

B. pascuorum (Scopoli). Kilmory Dunes (NG3604) 27.8.00 (DP).

B. muscorum (Linnaeus). Cliffs south of Harris (NM3494) 29.8.00 (DP).

Colletes sp. Cliffs south of Harris (NM3494) 29.8.00 (DP).

Braconidae

Meteorus versicolor (Wesmael) (det. M. R. Shaw). Reared from larva of *Macrothylacia rubi* from Kilmory (NG371041) 1.9.00 (CA).

Sphecidae

Mellinus arvensis (Linnaeus). Kilmory (NG3603), one 27.8.00 (KB).

DIPTERA

When the Scottish Entomologists reconvened in late August/early September 2000 David Horsfield, who attended the 1990 survey, worked mainly on the Muscidae. David Phillips concentrated on the Tipulidae adding 3 previously unrecorded species in spite of the fact that this family had been well investigated in the past. He also added a great deal of new localities for previously recorded species. Keith Bland concentrated on gall flies of the Cecidomyiidae confirming 2 more old Heslop Harrison records *Jaapiella loticola* (Rübsaamen) and *Anisostephus betulinum* (Kieffer); also leaf miners and stem borers of the Anthomyzidae and Agromyzidae adding 13 previously unrecorded species. Contributions to the Dipterous fauna also came from Roger and Rosy Key, Colin Welch and Gordon Corbet.

Tipulidae

Nephrotoma scurra (Meigen). Kilmory Dunes (NG3604), ♀, 27.8.00 (DP).

Tipula (= *Savtshenkia*) *marmorata*, Meigen. Kilmory Dunes (NG3604), 27.8.00, ♀ (DP).

T. (= *Savtshenkia*) *rufina* Meigen. Kilmory, narrow cleft in rocks on beach (NG366041), 27.8.00 (DP).

**T. montium* Egger. Kilmory, flushes running to beach (NG366044), 27.8.00, ♀ (DP).

T. (= *Acutipula*) *fulvipennis* De Geer. Kinloch, woodland on Nature Trail (NM415990), 28.8.00 (DP)

T. (= *Platytipula*) *melanoceros* Schummel. Path from Kinloch to Coire Dubh (NG393983 to NG398993), 28.8.00 (DP).

T. paludosa Meigen. Kilmory Fank, flushes on hillside outside fence at the south end of tree plot. Flushes with *Parnassia*, (NG362007), 27.8.00, ♀; Kilmory, flushes near cottage (NG358039) 27.8.00; Kilmory, flushes running to beach (NG366044), ♀, 27.8.00; Kinloch, ascending track to Dibidil (NM4098), 28.8.00; Coire Dubh track (NG393983), 28.8.00, ♀ (DP).

T. (= *acutipula*) *fulvipennis* De Geer. Kinloch, woodland on Nature Trail (NM415990), 28.8.00 (DP).

Limonia (= *Dicranomyia*) *autumnalis* (Staeger). Harris, pool behind raised beach (NM341957), 29.8.00; Kilmory Fank (NG362007), ♀, flushes on hillside outside south side fence of Tree Plot, abundant *Parnassia*, 27.8.00; Kilmory, flushes near Cottage (NG358039), 27.8.00, ♀, also flushes running down to beach (NG366044), ♀, 27.8.00. East Rum, ascending first part of Dibidil track (NM4098), 28.8.00, ♀. Path from Kinloch to Coire Dubh (NG393983 to NG398993), ♀, 28.8.00 (DP).

L. (= *Dicranomyia*) *mitis* (Meigen). Kilmory, flushes running down to beach (NG366044), 27.8.00 (DP).

**L.* (= *Dicranomyia*) *lutea* agg. Meigen. Kilmory, flushes running down to beach (NG366044), 27.8.00, ♀ (DP).

L. nubeculosa Meigen. Kilmory Dunes (NG3604), 27.8.00 (DP).

**L.* (= *Metallimbia*) *morio* (Fabricius). Kilmory Fank, flushes with *Parnassia* on hillside outside south side of tree plot (NG362007), 27.8.00 (DP).

Pedicia (= *Tricyphona*) *schummeli* (Edwards). Kilmory Fank (NG362007), flushes with abundant *Parnassia* on hillside outside south side fence of tree plot, ♀, 27.8.00 (DP).

P. (= *Tricyphona*) *immaculata* (Meigen). Kilmory (NG358039), flushes near cottage, ♀, 27.8.00 and flushes running to beach (NG366044), 27.8.00; east Rum, ascending first part of track to Dibidil (NM4098), 28.8.00; Coire Dubh track from Kinloch (NG393983 to NG 398993), 28.8.00 (DP).

Limnophila (= *Phylidorea*) *ferruginea* (Meigen). Kilmory (NG366044), flushes running to beach, 27.8.00 (DP).

L. (= *Phylidorea*) *squalens* (Zetterstedt). East Rum, ascending first part of track to Dibidil (NM4098), 28.8.00 (DP).

L. (= *Euphylidorea*) *meigeni* Verrall. Kilmory Fank (NG362007), flushes with abundant *Parnassia* on hillside outside south side fence of tree plot, 27.8.00; east Rum, ascending first part of track to Dibidil (NM4098), 28.8.00; path to Coire Dubh from Kinloch (NG393983 to NG398993), 28.8.00 (DP).

**L.* (= *Brachylimnophila*) *separata* sensu Stubbs. East Rum (NG393983 to NG398993), path from Kinloch to Coire Dubh (DP).

Pilaria discicollis (Meigen). Harris, pool on raised beach (NM341957) and cliffs south of Harris (NM3494), 29.8.00 (DP).

Gonomyia dentata de Meijere. Harris (NM3494), cliffs to the south, 29.8.00 (DP).

Erioptera trivialis Meigen. Harris, pool on raised beach (NM341957) and cliffs to the south of Harris (NM3494), 29.8.00. Kilmory Fank, flushes with abundant *Parnassia* on hillside outside south end fence of tree plot (NG362007), 27.8.00; Kilmory, flushes running down to beach (NG366044), 27.8.00 (DP).

Molophilus griseus (Meigen). Kinloch, woodland on Nature Trail (NM415990), 28.8.00 (DP).

Ptychopteridae

**Ptychoptera lacustris* (Meigen). Harris (NH3495), ♀, 29.8.00 (DP).

Cecidomyiidae

**Dasineura crataegi* (Winnertz). Harris Tree Plot (NM3396), 29.8.00, galled and condensed shoots on lee of bushes (KB).

**Dasineura pteridicola* (Kieffer). Loch Scresort, South Side Natura Trail (NM4198) 31.8.00, galls on *Pteridium* (KB).

Geocrypta galii (Loew). Harris, steep slopes, Glen Duain burn (NM3396), 29.8.00, rounded stem galls on *Galium verum* (KB).

Iteomyia caprae (Winnertz). Kilmory (NG3603), 27.8.00, leaf gall on *Salix aurita*; Kinloch (NM4099), 30.8.00, galls in leaves of *Salix aurita x cinerea* Kilmory enclosure (NG3602), 1.9.00, leaf galls on *Salix aurita*; (KB); Bagh nah-Uamha (NM4197) 1.9.00, near standing stone, leaf galls on *S. aurita* (RCW).

Jaapiella loticola (Rübsaamen). Kilmory (NG3503 and 3603), 27.8.00, Kinloch (NM4099), 30.8.00 and Harris (NM3396), Glen Duain, 29.8.00, terminal bud galls on *Lotus corniculatus*, all empty, but most probably this species (KB). This confirms an early record by J W Heslop Harrison (Harrison 1948).

**Oligotrophus panteli* Kieffer. Kilmory (NG3503), 27.8.00, bud galls on juniper; (det. confirmed by Philip Entwistle) (KB).

**Rhabdophaga rosaria* (Loew) (= *cinerearum* (Hardy)). Kinloch (NM4099), 30.8.00, condensed shoot galls on *Salix aurita x cinerea* and *S. cinerea*; Kilmory enclosure (NG3602) 1.9.00, rosette galls on *S. aurita* (KB).

Rhopalomyia ptarmicae (Vallot). Harris Tree Plot (NM3396), 29.8.00 and Kinloch (NM4099), 30.8.00, galled flowers of *Achillea ptarmicae* (KB).

Asphondylia thymi Kieffer. Harris (NM3396), steep banks by Glen Duain burn (29.8.00), galled seedheads of *Thymus*, a few (KB).

Anisostephus betulinum (Kieffer). Kinloch (NM4099), 30.8.00, single blister gall on birch (KB). This confirms former record from Kinloch (Harrison, 1948).

Rhagionidae

Rhagio lineola Fabricius. Woodland on Nature Trail, Kinloch (NM415990) 28.8.00 (DP).

R. scolopacea (Linnaeus). Kinloch Glen Nature Trail (NG3900), 3.6.00 (KB).

Tephritidae

Tephritis leontodontis (de Geer). Harris Tree Plot (NM3396) 29.8.00, several (KB).

Tephritis vespertina (Loew). Kinloch Glen (NG3900) 31.8.00, exuvia in heads of *Hypochaeris radicata* (KB).

Trypeta zoe (Meigen). Kinloch (NM4099), 28 & 30.8.00, broad linear mines following veins in *Senecio aquaticus* (KB).

**Sphenella marginata* (Fallén). Kinloch (NM4099), 27.8.00, two taken in field dominated by *Senecio aquaticus* (RK det. KB); also, 30.8.00, puparia in capitula of *S. aquaticus*, flies emerged 8-11.11.00 (KB).

**Rhagaletis alternata* (Fallén). Loch Scresort, South Side Nature Trail (NM4198), 31.8.00, tunnels in hips of rose, one fly emerged 24.5.01 (KB).

Anthomyiidae

- **Chirosia betuleti* (Ringdahl). Kinloch (NM4099), 30.8.00, curled frond-tips of fern - all empty (KB).
Chirosia histricina (Rondane). South side of Loch Scresort (NM4198) 31.8.00, mines in bracken fronds (KB).
**Delia piliventris* (Pokorný). Askival (NM3895), 28.8.00, larvae boring shoots of *Silene acaulis* single puparia (KB).
**Pegomya rubivora* (Coquillett). Kinloch Glen (NG4000) 31.8.00, single exuvium in old dead stem of *Filipendula ulmaria* (KB).
**Physoyami* (Panzer) (= *betae* (Curtis)). Harris (NM3395), 29.8.00, larvae mining leaves of *Silene maritima*, one ♂ found to have emerged and died, 3.12.00 (KB).
Agromyzidae
**Agromyza albitarsis* Meigen. South Side Nature Trail, Loch Scresort (NM4198), 31.8.00, black mine in suckers of aspens (KB).
**Agromyza alnivora* Spencer. Kinloch (NM4099), 30.8.00, many mines in alder; (KB). Kinloch Glen (NM3899) 30.8.00 (DH).
**A. alnibetulae* Hendel. Kinloch (NM4099), 30.8.00, many mines in leaves of birch (KB).
**A. demejerei* Hendel. Kinloch (NM4099) 27.8.00, vacated mines in leaves of *Laburnum* and 30.8.00, occupied mines (KB).
A. johannae de Meijere. Harris Tree Plot (NM3396) 29.8.00, a few aborted early mines in broom (KB).
A. nana Meigen. Kilmory Fank (NG3600), 27.8.00, single occupied blotch mine in *Trifolium repens*, one imago found to have emerged and died, 3.12.00; Kilmory enclosure (NG3602) 1.9.00, roadside, single blotch mine in *T. repens*; Kinloch (NM4099) 30.8.00, mines in *T. repens* & *T. pratense* (KB).
**A. filipendulae* Spencer. Kinloch (NM4099), 30.8.00, vacated mines in *Filipendula ulmaria* and raspberry (KB).
**A. phragmitidis* Hendel. Kinloch (NM4099), 30.8.00, multi larval mines in leaves of *Phragmites*, two flies emerged, 24.9.00 and 7.11.00 (KB).
**A. potentillae* Kaltenbach. Kinloch (NM4099), 30.8.00, vacated mines in *Filipendula ulmaria* and raspberry (KB).
**Aulagromyza tremulae* (Hering). South Side Nature Trail, Loch Scresort (NM4198), 31.8.00, early mines in *Aspen* (KB).
**Cerodontha iraeos* (Robineau-Desvoidy). Kinloch (NO4099) 30.8.00, mines with puparia in *Iris pseudacorus* (KB).
**Napomyza lateralis* (Fallén). Kinloch (NO4099) 30.8.00, larvae in capitula of *Tripleurospermum*, fly emerged 10.9.00 (KB).
**Phytoliriomyza hilarella/pteridii* (Zetterstedt). South side of Loch Scresort (NM4198) 31.8.00, mines in bracken fronds of one of these two species (KB).
**Phytomyza affinis* Fall. Kilmory Fank (NG3600) 27.8.00, three puparia in old seed heads of *Euphrasia* (KB).
P. aprilina (Grosch.) Kilmory (NG3603), 27.8.00, stellate linear mines in *Lonicera periclymen*, puparia in mines; South Side Nature Trail, Loch Scresort (NM4099 and NM4198), mines in leaves of *Lonicera periclymen*, one fly emerged 10.9.00 (KB); Bagh na h-Uamha (NM4197), 1.9.00, near standing stone, stellate mines in *Lonicera* (RCW).
Phytomyza angelicae Hering Kilmory (NG3603), 27.8.00, blotched mines on *Angelica sylvestris*, 2 imagines emerged 17.9.00; Coire Dubh, near dam (NM3998), 28.8.00, yellowish blotch mines in *Angelica*; Kinloch near Castle (NM4099), mines in *Angelica*; Harris Tree Plot (NM3396), 29.8.00, mines in *Angelica*; Kinloch (NM4099), 30.8.00, yellow blotch mines in *Angelica sylvestris* (KB).
P. angelicastris Hering Kinloch (NM4099) 30.9.00, linear mines in *Angelica sylvestris* (KB).
**P. cecidonomia* Hering Harris (NM3396), 29.8.00, mines in *Centaurea nigra* with vacated puparium in mine (KB).
P. ilicis Curt. Kinloch near Castle (NM4099), 28.8.00 and 30.8.00, mines in holly (KB).
P. obscurella Fallén. Kinloch (NM4099), 30.8.00, linear vacated mines on *Aegopodium* (KB).
P. plantaginis Goreau. Harris (NM3396), 29.8.00, mines in *Plantago lanceolata* (KB).
P. primulae Goreau. Coire Dubh, near Hydro dam (NM3998), 28.8.00, mines in *Primula vulgaris* (KB).
P. rostrata Hering. Kinloch (NM4099), 30.8.00, puparia in stems of *Rhinanthus* and *Odontites verna*; flies emerged, 8.10.00 (KB).
**P. tenella* Meigen. Kilmory (NG3503), 27.8.00, single pupa in seed head of *Pedicularis sylvestris*; one imago emerged 15.7.02 (KB).
P. varipes Macquart. Harris (NM3396), 29.8.00, single puparium in seedhead of *Rhinanthus*; Kinloch (NM4099), 30.8.00, puparia in seedheads of *Rhinanthus* (KB).
**P. virgaureae* Hering. Hallival (NM3894) (NM3996), 28.8.00, occupied mines in *Solidago* (KB, DH). Around Hydro dam, Coire Dubh (NM3998), 28.8.00, linear mines in *Solidago virgaurea*; Dibidil path (NM4195) 28.8.00, mines in *Solidago* (KB).
Napomyza lateralis (Fallén). Kinloch (NM4099), 30.8.00, mines in capitula of *Tripleurospermum maritima*. One imago emerged, 30.4.01 (KB).

Syrphidae

Platycheirus clypeatus (Meigen). Harris, pool on raised beach (NM341955) 29.8.00 (DP). Kilmory, flushes near Cottage (NG358039) 27.8.00 (DP).

Eristalis abusivus (Collin). Harris, pool on raised beach (NM341955) 29.8.00 (DP).

Hippoboscidae

Lipoptena cervi (Linnaeus). Kilmory (NG3503) 27.8.00, several adults (KB). Harris, ♂ on GC, wings shed. Loch Sresort, N shore ♀ on GC, one wing in tact, August 2000 (GC). Kilmory Dunes (NG3604) 27.8.00 (RK).

SIPHONAPTERA (FLEAS)

In the course of sieving moss in the Kinloch Castle woods Colin Welch added one previously unrecorded flea.

Ceratophyllidae

**Ceratophyllus fragillae* (Walker). One ♀, sieving moss and leaf litter in Kinloch Castle woodlands, 1.9.00 (RCW).

ACKNOWLEDGEMENTS

The participants would like to thank Scottish Natural Heritage, and especially Denise Reed for all the help with transport and accommodation while on the Island. Thanks are also due to John Walters and Linda Ross at Fraser Darling House, Inverness for their help with the typing and computer storage of all the Rum entomological data; for having to contend with the ever-changing taxonomic tabulation and the eccentricities of entomologists and their variable punctuation.

REFERENCES

- Bland, K.P. 2001. *Cosmopterix orichalcea* Stainton (Lep: Cosmopterigidae) A resident species on the Isle of Rum, Scotland. *Entomologist's Record and Journal of Variation* 113, 262-263.
- Bland, K.P. 2001. New food-plant for *Leucoptera orobi* Stainton (Lep: Lyonetiidae) from the Isle of Rum, Scotland. *Entomologist's Record and Journal of Variation* 113, 263.
- Bradley, J.D. 1998. *Checklist of Lepidoptera recorded from the British Isles*. 106pp. D. J. & M. J. Bradley.
- Hancock, E.G. 1992. Some records of terrestrial invertebrates from Rum National Nature Reserve, 1990. *Glasgow Naturalist* 22, 169-189.
- Harrison, J.W.H. 1938. A contribution to our knowledge of the Lepidoptera of the islands of Coll, Canna, Sanday, Rhum, Eigg, Soay and Pabbay (Inner Hebrides) and of Barra, Mingulay and Berneray (Outer Hebrides). *Proceedings of the University of Durham, Philosophical Society* 10, 10-23.
- Harrison, J.W.H. 1939. The gall-making Hymenoptera of some of the Western Islands of Scotland. *Entomologist's Monthly Magazine* 74, 60-63.
- Harrison, J.W.H. 1940a. More records of gall-making Hymenoptera in the Inner and Outer Hebrides. *Entomologist's Monthly Magazine* 75, 245-246.
- Harrison, J.W.H. 1940b. The genus *Zygaena* in the Western Isles of Scotland. *Entomologist's Record and Journal of Variation* 52, 134-137.
- Harrison, J.W.H. 1940c. *Somatochlora arctica* Zett. A dragonfly new to the Hebrides on the Isle of Rhum. *Entomologist* 75, 45.
- Harrison, J.W.H. 1944. *Nepticula anomalella* on wild rose in the Isle of Rhum. *Entomologist's Record and Journal of Variation* 56, 108.
- Harrison, J.W.H. 1945. *Coccinella 11-punctata* L. var. *boreolitoralis* Donis. (Col. Coccinellidae) in the Inner and Outer Hebrides. *Entomologist's Monthly Magazine* 81, 11.
- Harrison, J.W.H. 1946. The detection of larvae and pupae of *Coccinella 11-punctata* L. var. *boreolitoralis* Donis. (Col. Coccinellidae) on the Isle of Rhum. *Entomologist's Monthly Magazine* 82, 118.
- Harrison, J.W.H. 1948. Zoecidia in the Scottish Western Isles. *Entomologist's Monthly Magazine* 84, 113-116.
- Harrison, J.W.H. 1950. *Meloe proscarabaeus* L. in the Isle of Rhum. *Entomologist* 83, 70.
- Harrison, J.W.H. 1955. Lepidoptera of the Lesser Isles of Skye. *Entomologist's Record and Journal of Variation* 67, 141-147; 169-177.
- Heath, J. and Maitland Emmett, A. (eds.) 1979. *The Moths and Butterflies of Great Britain and Ireland. Volume 9, Sphingidae to Noctuidae: Noctuidae and Hadeninae*. Harley Books 288pp.
- Horsfield, D. 2002. Some records of *Rhacognathus punctatus* (L.) Hemiptera (Pentatomidae). *Entomologist's Monthly Magazine* 138, 88.
- Kloet, G.S. and Hincks, W.D. 1964-79. *A check list of British Insects (2nd edn)*. London, Royal Entomological Society.
- Luff, M.L. 1998. Provisional Atlas of the Ground Beetles (Coleoptera, Carabidae) of Great Britain. *Biological Record Centre, Institute of Terrestrial Ecology, Monks Wood* p125 Map 236
- Pelham -Clinton, E.C. 1986. *Cosmopterix orichalcea* Stainton in the Isle of Rhum. *Entomologist's Record and Journal of Variation* 98, 143.
- South, R. 1961. *The Moths of the British Isles: Volume 1*. London, Frederick Warne & Co. Ltd., 427pp.
- Steel, W.O. and Woodroffe, G.E. 1969. The Entomology of the Isle of Rhum National Nature Reserve. *Transactions of the Society for British Entomology* 18, 91-167.
- Welch, R.C. 2001. *Gyrophana poweri* Crotch (Staphylinidae) new to Scotland from Rum National Nature Reserve. *The Coleopterist* 10, 93.

- Welch, R.C. 2003. Early records of *Gyrophaena poweri* Crotch (Staphylinidae) from Scotland and Wales. *The Coleopterist* **12**, 31-32.
- Whiteley, D. 1994. A Survey of Diptera on the Isle of Rum, 1990. *Dipterists Digest* **14**, 2-27.
- Wormell, P. 1982. The Entomology of the Isle of Rhum National Nature Reserve. *Biological Journal of the Linnacian Society* **18**, 291-401.
- Wormell, P. In preparation. Insects of the Isle of Rum.